

340

<210> 3003

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3003

Met Glu Val Thr Arg Gln His Pro Arg His Pro Tyr Pro Lys Val Gly
 1 5 10 15
 Ser Arg Ile Pro Ser Thr Arg Lys Cys His Ser Pro Pro Pro Pro Pro
 20 25 30
 Ser Gly Thr Leu Thr Gly Ala Glu Cys Gly Gly Gly Arg Gly Arg Glu
 35 40 45
 Arg Arg Gly Gly Gly Thr Arg His Thr His His Ala Glu Asn Cys Phe
 50 55 60
 Thr Ala Phe Leu Lys Val Phe Lys Met Gln Phe Leu Gln Pro Glu Asn
 65 70 75 80
 Ser His Pro Phe Thr Ser Pro Ser Pro His Pro Ala Pro His Pro His
 85 90 95
 Arg Gly Leu Arg Trp Ala Val Ser Pro Arg Arg Pro Arg Pro His Ala
 100 105 110
 Pro Arg Arg Ala Ala Pro Gly Gly Gly Val Pro Asp Ala Ala Gln Leu
 115 120 125
 Gly Met Leu Arg Thr Cys Met
 130 135

<210> 3004

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3004

Met Gly Ser Ser Met Glu His Met Arg Arg Arg Glu Ser Gly Gly Gly

1	5	10	15
Gly Gly Gly Ala Ser Arg Gly Ala Ala Val Gly Trp Arg Lys Pro Gly			
20	25	30	
Gly Arg Val Gln Cys Arg Glu Ser Asn Glu Glu Arg Phe Glu Ala Cys			
35	40	45	
Gln Gln Asn Pro Met Leu Gln Arg Gly Leu Gly Met Gly Leu Leu Arg			
50	55	60	
Ala Leu Leu Thr Val Ser Pro Ser Arg Ala Ala Ser Gly Asp Cys Gly			
65	70	75	80
Asp Cys Trp His Thr Ala Gly Phe Ala Arg Leu Lys Thr Met Gly Gly			
85	90	95	
Val Glu Asp Leu Leu Thr His Leu Lys Lys Ile Gly Gly Lys Gly Arg			
100	105	110	
Ile Glu Ser Val Ser Asp Arg Lys Arg Ile Ile Cys			
115	120		

<210> 3005

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3005

Met Pro Ala Asn Gly Glu Thr Val Thr Leu Pro Thr Ser Pro Ser Ile			
1	5	10	15
Pro Val Gly Ile Ser Leu Gly Leu Leu Lys Arg Glu Met Ala Gln Gly			
20	25	30	
Leu Leu Pro Glu Ala Lys Lys Pro Arg Leu Leu His Gly Thr Leu Ile			
35	40	45	
Met Lys Asp Ser Val Ser Ala Arg Thr Val Ser Gly Gly Gly Arg Ala			
50	55	60	
Ala Ala Ala Leu Thr Asp Leu Ser Leu Pro His Arg Thr Ser Gly Trp			
65	70	75	80
Cys Pro Gln Ser Lys Pro Ser Lys Ser Trp Val Trp Leu Ser Thr Ser			
85	90	95	
Cys Ala Ser Pro Ala Ala Cys Thr Cys Met Thr His Ala Arg Ser Arg			

	100		105		110							
Arg	Arg	His	Cys	Ala	Ser	Thr	Ala	Thr	Ser	Arg	Ala	Ser
	115		120		125							

<210> 3006

<211> 311

<212> PRT

<213> Homo sapiens

<400> 3006

Met	His	Asn	Ala	Glu	His	Tyr	Ser	Ser	Val	Tyr	Ala	Ser	Ser	Ser	Cys
1			5						10					15	
Ser	Met	Asp	Ser	Leu	Ala	Ser	Ser	Leu	Asp	Glu	Gly	Asp	Thr	Thr	Ser
			20					25					30		
Leu	Leu	Lys	Leu	Gln	Arg	Tyr	Asn	Ser	Tyr	Asp	Ile	Ser	Arg	Asp	Thr
		35					40					45			
Leu	Tyr	Val	Ser	Lys	Ser	Ile	Cys	Leu	Ile	Thr	Pro	Leu	Pro	Phe	Met
	50					55				60					
Gln	Ala	Cys	Lys	Lys	Phe	Leu	Ile	Gln	Leu	Tyr	Lys	Ala	Val	Thr	Ser
65					70					75				80	
Gln	Gln	Pro	Pro	Pro	Leu	Pro	Leu	Glu	Ser	Tyr	Ile	His	Asn	Ile	Leu
				85					90					95	
Tyr	Glu	Val	Pro	Leu	Pro	Pro	Pro	Gly	Arg	Ser	Leu	Lys	Phe	Tyr	Gly
		100						105					110		
Val	Tyr	Glu	Pro	Val	Ile	Cys	Gln	Arg	Pro	Gly	Pro	Ser	Glu	Leu	Pro
		115						120					125		
Leu	Ser	Asp	Tyr	Pro	Leu	Arg	Glu	Ala	Phe	Glu	Leu	Leu	Gly	Leu	Glu
		130				135							140		
Asn	Leu	Val	Gln	Val	Phe	Thr	Cys	Val	Leu	Leu	Glu	Met	Gln	Ile	Leu
145					150						155			160	
Leu	Tyr	Ser	Gln	Asp	Tyr	Gln	Arg	Leu	Met	Thr	Val	Ala	Glu	Gly	Ile
			165							170				175	
Thr	Thr	Leu	Leu	Phe	Pro	Phe	Gln	Trp	Gln	His	Val	Tyr	Val	Pro	Ile
		180						185					190		
Leu	Pro	Ala	Ser	Leu	Leu	His	Phe	Leu	Asp	Ala	Pro	Val	Pro	Tyr	Leu

195	200	205
Met Gly Leu Gln Ser Lys Glu Gly Thr Asp Arg Ser Lys Leu Glu Leu		
210	215	220
Pro Gln Gly Ala Asn Leu Cys Phe Val Asp Ile Asp Asn His Phe Ile		
225	230	235
Glu Leu Pro Glu Glu Phe Pro Gln Phe Pro Asn Lys Val Asp Phe Ile		
	245	250
Gln Glu Leu Ser Glu Val Leu Val Gln Phe Gly Ile Pro Pro Glu Gly		255
	260	265
Ser Leu His Cys Ser Glu Ser Thr Ser Lys Leu Lys Asn Met Val Leu		270
	275	280
Lys Asp Leu Val Asn Asp Lys Lys Asn Gly Asn Val Cys Thr Asn Asn		285
	290	295
Ile Ser Met Tyr Glu Leu Leu		300
305	310	

<210> 3007

<211> 250

<212> PRT

<213> Homo sapiens

<400> 3007

Met Gly Gln Gly Thr Gly Lys Leu Pro Pro Pro His Leu Ile Ser Asp			
1	5	10	15
Leu Pro Pro Gln Cys Pro Met Cys Asp Pro Ala Ile Phe Ser Lys Leu			
	20	25	30
Asn Ser Val Thr Arg Ala Thr Gly Leu Ala Pro Ser Pro Ser Lys Asp			
	35	40	45
Ser Glu Gly Ala Ser Phe Ser His Leu Leu Ile Ile Phe His Phe Ser			
	50	55	60
Arg Gln Pro Thr Gln Lys Ala Trp Thr Arg Trp Trp Arg Cys Trp Gly			
65	70	75	80
Ser Tyr Thr Glu Ala Leu Phe Ser Val Cys Ser Leu Pro Gly Gln Ile			
	85	90	95
Arg Lys Leu Arg His Arg Lys Val Thr Gln Asp Tyr Arg Gly Gln His			

100	105	110
Arg Glu Gln Trp Asn Leu His Leu Thr Pro Gly Arg Arg Asn Leu His		
115	120	125
Asp His Ser Thr Pro Pro Gln Gly Thr Gly Arg Glu Asn Asn Gly Ser		
130	135	140
Ser Arg Thr Lys Val Thr Phe Pro Arg Val Ser Cys Cys Leu Asp Leu		
145	150	155
Ala Ala Val Ser Val Leu Pro Arg Arg Gly Ile Ser Met Ser Ser Gly		
165	170	175
Gln Trp Gln Arg Gly Arg Gly Ala Pro Leu Gln Cys Ala Gly Trp Ser		
180	185	190
Ala Gly Ser Cys Gln Cys Glu Asp Leu Gln Gln Leu Val Tyr Pro Trp		
195	200	205
Ser Cys His Gln Leu Pro Glu Phe Gly Ala Ala Gly Ala Thr Leu Val		
210	215	220
Val Leu Pro Cys Arg Gly Ser Ser Cys Leu Leu Val Ser Glu Ser Gln		
225	230	235
Leu Trp Gly Cys Asn Leu Lys Pro Lys Ala		
245	250	

<210> 3008

<211> 287

<212> PRT

<213> Homo sapiens

<400> 3008

Met Gly Lys Gly Leu Tyr Trp Ala Cys Trp Gly Ala Val Pro Leu Pro
1 5 10 15
Ser Trp Val His His Gly Trp Arg Ala Cys Gly Trp Val Ala Leu Ala
20 25 30
Gly Ile Leu Arg Ala Cys Arg Leu Pro Ser Ala Leu Gln Pro Ser Pro
35 40 45
Ala Pro Leu Phe Phe Lys Gly Val Leu Leu Leu Gly Glu Pro Val Arg
50 55 60
Trp Glu Thr Ser Leu Gln Leu Ile Met Asp Val Leu Leu Ser Asn Gly

65	70	75	80
Ser Pro Gly Ala Gly Leu Ala Thr Pro Pro Tyr Pro His Leu Pro Val			
	85	90	95
Leu Ala Ser Asn Met Asp Leu Leu Trp Met Ala Glu Ala Lys Met Pro			
	100	105	110
Arg Phe Gly His Gly Thr Phe Leu Leu Cys Leu Glu Thr Ile Tyr Gln			
	115	120	125
Lys Val Thr Gly Lys Glu Leu Arg Tyr Glu Gly Leu Met Gly Lys Pro			
	130	135	140
Ser Ile Leu Thr Tyr Gln Tyr Ala Glu Asp Leu Ile Arg Arg Gln Ala			
145	150	155	160
Glu Arg Arg Gly Trp Ala Ala Pro Ile Arg Lys Leu Tyr Ala Val Gly			
	165	170	175
Asp Asn Pro Met Ser Asp Val Tyr Gly Ala Asn Leu Phe His Gln Tyr			
	180	185	190
Leu Gln Lys Ala Thr His Asp Gly Ala Pro Glu Leu Gly Ala Gly Gly			
	195	200	205
Thr Arg Gln Gln Gln Pro Ser Ala Ser Gln Ser Cys Ile Ser Ile Leu			
	210	215	220
Val Cys Thr Gly Val Tyr Asn Pro Arg Asn Pro Gln Ser Thr Glu Pro			
225	230	235	240
Val Leu Gly Gly Gly Glu Pro Pro Phe His Gly His Arg Asp Leu Cys			
	245	250	255
Phe Ser Pro Gly Leu Met Glu Ala Ser His Val Val Asn Asp Val Asn			
	260	265	270
Glu Ala Val Gln Leu Val Phe Arg Lys Glu Gly Trp Ala Leu Glu			
	275	280	285

<210> 3009

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3009

Met His Ser Gln Gly Lys Phe Leu Val Phe Phe Ser Gly Phe Lys Leu

1	5	10	15
Ala	Ala	Leu	Val
Ser	Cys	Leu	His
Met	Cys	Val	Cys
Leu	Phe	Leu	Phe
20	25	30	
Ser	Phe	Cys	Ser
Phe	Ser	Phe	Leu
Val	Trp	Arg	Phe
Ser	Asn	Thr	Asn
35	40	45	
Lys	Cys	Arg	Glu
Asn	Ile	Ala	Met
Asn	Ser	Met	Tyr
Ser	Ser	Pro	Asp
50	55	60	
Phe	Ser	Asn	His
Gln	Leu	Tyr	Ala
Asn	Leu	Val	Ser
Ser	Ser	Ile	Thr
Ser			
65	70	75	80
Leu	Pro	Leu	Phe
Cys	Gly	Ser	Ile
Leu	Lys	Gln	Asn
Pro	Asn	Ile	Ile
85	90	95	
Thr	Phe	His	Leu
Gly	Val	Pro	Gln
His	Phe	Pro	Leu
Thr	Asp	Glu	Asp
100	105	110	
Phe	Lys	Met	
115			

<210> 3010

<211> 528

<212> PRT

<213> Homo sapiens

<400> 3010

Met	Gly	Asp	Ala
Pro	Ser	Pro	Glu
Glu	Lys	Leu	His
Leu	Ile	Thr	Arg
1	5	10	15
Asn	Leu	Gln	Glu
Val	Leu	Gly	Glu
Lys	Leu	Lys	Glu
Ile	Leu	Lys	
20	25	30	
Glu	Arg	Glu	Leu
Lys	Ile	Tyr	Trp
Gly	Thr	Ala	Thr
Thr	Gly	Lys	Pro
35	40	45	
His	Val	Ala	Tyr
Phe	Val	Pro	Met
Ser	Lys	Ile	Ala
Asp	Phe	Leu	Lys
50	55	60	
Ala	Gly	Cys	Glu
Val	Thr	Ile	Leu
Phe	Ala	Asp	Leu
His	Ala	Tyr	Leu
65	70	75	80
Asp	Asn	Met	Lys
Ala	Pro	Trp	Glu
Leu	Leu	Glu	Leu
Arg	Val	Ser	Tyr
85	90	95	
Tyr	Glu	Asn	Val
Ile	Lys	Ala	Met
Leu	Glu	Ser	Ile
Gly	Val	Pro	Leu

100	105	110
Glu Lys Leu Lys Phe Ile Lys Gly Thr Asp Tyr Gln Leu Ser Lys Glu		
115	120	125
Tyr Thr Leu Asp Val Tyr Arg Leu Ser Ser Val Val Thr Gln His Asp		
130	135	140
Ser Lys Lys Ala Gly Ala Glu Val Val Lys Gln Val Glu His Pro Leu		
145	150	155
Leu Ser Gly Leu Leu Tyr Pro Gly Leu Gln Ala Leu Asp Glu Glu Tyr		
165	170	175
Leu Lys Val Asp Ala Gln Phe Gly Gly Ile Asp Gln Arg Lys Ile Phe		
180	185	190
Thr Phe Ala Glu Lys Tyr Leu Pro Ala Leu Gly Tyr Ser Lys Arg Val		
195	200	205
His Leu Met Asn Pro Met Val Pro Gly Leu Thr Gly Ser Lys Met Ser		
210	215	220
Ser Ser Glu Glu Glu Ser Lys Ile Asp Leu Leu Asp Arg Lys Glu Asp		
225	230	235
Val Lys Lys Lys Leu Lys Lys Ala Phe Cys Glu Pro Gly Asn Val Glu		
245	250	255
Asn Asn Gly Val Leu Ser Phe Ile Lys His Val Leu Phe Pro Leu Lys		
260	265	270
Ser Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys Thr		
275	280	285
Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu Val Val		
290	295	300
His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu Asn Lys Leu		
305	310	315
Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala Leu Lys Lys Leu		
325	330	335
Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln Lys Pro Met Ala Lys		
340	345	350
Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu Val Ile Pro Ser Arg Leu		
355	360	365
Asp Ile Arg Val Gly Lys Ile Ile Thr Val Glu Lys His Pro Asp Ala		
370	375	380
Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu Pro Arg		

385 390 395 400
 Thr Val Val Ser Gly Leu Val Gln Phe Val Pro Lys Glu Glu Leu Gln
 405 410 415
 Asp Arg Leu Val Val Val Leu Cys Asn Leu Lys Pro Gln Lys Met Arg
 420 425 430
 Gly Val Glu Ser Gln Gly Met Leu Leu Cys Ala Ser Ile Glu Gly Ile
 435 440 445
 Asn Arg Gln Val Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala Pro Gly
 450 455 460
 Glu His Val Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp Glu Glu
 465 470 475 480
 Leu Lys Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp Phe Lys
 485 490 495
 Ile Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe Met Thr
 500 505 510
 Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn Ile Ser
 515 520 525

<210> 3011

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3011

Met Pro Leu Thr Gly Thr Asn His Asp Arg Gln Gly His Leu Leu Arg
 1 5 10 15
 Ser Gly Thr Thr Tyr Tyr Leu Leu Ala Met Gly Ala Asn Phe Thr Val
 20 25 30
 Phe Leu Gln Tyr Leu Val Phe Pro Ile Phe Gly Phe Leu Leu Ile Ile
 35 40 45
 Ser His Pro Ser Gln Pro Leu Phe Ser Ser Pro Pro Leu Cys Leu Gln
 50 55 60
 His Pro Ile Leu Pro Ser Leu Pro Phe Asn Leu Pro Ile Leu Phe Phe
 65 70 75 80
 Pro Leu Lys Ser His Met Ile Leu Gln Ser Ser Phe Val Phe Pro Lys

	85	90	95
Lys Lys Lys Asn Phe Phe Phe Phe Lys Glu Pro Phe Leu Asp Ser			
100	105	110	

<210> 3012

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3012

Met Trp Gly Arg Ser Ser Gly Glu Gly Gln Ser Leu Leu Pro Val Glu			
1	5	10	15
Arg Lys Trp Ala Leu Glu Lys Leu His Glu Ser Ser Pro Ala Glu Gly			
20	25	30	
Pro Glu Val His Ile Ser Gly Ala Arg Val Gly Leu Met Val Thr Leu			
35	40	45	
Ala Gly Asp Ala Lys Ser Thr Gly Val Arg Pro Gly Gln Val Leu Val			
50	55	60	
Cys Glu Trp Ala Ser Phe Ser Arg Leu Ala His Arg Lys Arg Val Ala			
65	70	75	80
Trp Leu Ala Phe Pro Leu Lys Leu Arg Thr Glu Ala Gln Asp Met Ser			
85	90	95	
His Thr Ile Asp Met Ser Trp Gly Gln Met Gly Gly Arg Cys Ala Gln			
100	105	110	
Ser Gly Cys Ile Asp Thr			
115			

<210> 3013

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3013

Met Gly Gly Pro Gly Gln Arg Gly Thr Gln Gln Arg Cys Pro Pro Ser

```

      1             5             10             15
Ser Leu Ser Ser Leu Ala Gly Ile Thr Gly Pro Ser Ala Glu Pro Thr
      20             25             30
Pro Arg Thr Cys Ser Gly Cys Ala Lys Arg Pro Ala Thr Trp Cys Ala
      35             40             45
Thr Val Arg Pro Ala Arg Met Thr Ser Pro Ser Pro Ser Ser Glu Trp
      50             55             60
Gly Gln Leu Trp Phe Gln Gly Gln Gln Ala Gly Trp Lys Gly Thr Pro
      65             70             75             80
Val Phe Pro Leu Cys Pro Thr Lys Leu Gly Arg Ser Pro Ser Pro Met
      85             90             95
Asn Asn Pro Gln Ala Leu Gly Val Leu Arg Cys Leu Arg Leu Ser Pro

      100             105             110
Cys Ser Gln Gly Ala Gln Ser Pro Leu Gly Glu Ile Val Asp Pro Gln
      115             120             125
His Pro Ala Gln Lys Gly Ser Val Leu Val Val Trp Pro Gly Pro Leu
      130             135             140
Asn Leu Ser Arg Pro Gln Phe Pro Tyr
      145             150

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<210> 3014

<211> 329

<212> PRT

<213> Homo sapiens

<400> 3014

```

Met Lys Phe Ser Ser Cys Leu Asn Arg Gly Ala Lys Pro Asp Glu Ile
      1             5             10             15
Asn Gly Arg Lys Lys Met Pro Ala Ile Leu Phe Gln Glu Arg His Gly
      20             25             30
Leu Lys Gly Glu Arg Thr Thr Val Thr Arg Gly Arg Phe Arg Pro His
      35             40             45
Arg Ala Ala Arg Ala Gly Lys Leu Cys Arg Gly Arg Phe Arg Gly Gln
      50             55             60

```

Ser Gln Gly Gly Gly Pro Arg His Arg Arg Val Phe Gln Ala Gly Pro
 65 70 75 80
 Gly Pro Gly Gln Arg Gly Ile Thr Arg Pro Val Leu Cys Ser Gln Asp
 85 90 95
 Glu Gly Arg Gly Gln Thr Phe Ser Pro Arg Pro Ser Arg Gln Gly Trp
 100 105 110
 Ala Val Pro Val Gly Ala Trp Glu Arg Arg Arg Arg Ala His Phe Gln
 115 120 125
 His Gln Val Arg Glu Gly His Asp Ala Gln Pro Leu Glu Pro Leu Ala
 130 135 140
 Cys Val Pro His Pro Asp Phe Leu Ala Ser Gly Glu Arg Pro Leu Arg
 145 150 155 160
 Arg Val Gly Val Ala Arg Gly Ser Ala Glu Glu Ser Trp Gly Gln Arg
 165 170 175
 Ala Trp Trp Arg Gly Pro Ala Arg Arg Val Pro Gly Ala Arg Gly Arg
 180 185 190
 Pro Gln Asn Pro Gly Arg Val Glu Ala Pro Gly His Ala Pro Gly Trp
 195 200 205
 Trp Ala Ala Arg Asp Gly Ser Gly Asp Pro Ser Pro Glu Glu Gly Arg
 210 215 220
 Gly Leu His Arg Gly Gln Ala Glu Ala Pro Arg Val Pro Cys Gly Phe
 225 230 235 240
 Arg Pro Ser Pro Leu Ala Pro Thr Pro Arg Ser Gly Arg Asp Ser Ser
 245 250 255
 Pro Gly Ser Ala Gly Gln Ala Gln Val Cys Ala Leu Arg Leu Gln Pro
 260 265 270
 Arg Gln Lys Ser Val Pro Arg Arg Gly Arg Arg Val Arg Val Pro Arg
 275 280 285
 Met Arg Val Gly Leu Pro Pro Ala Gly Thr Ala Glu Leu Arg Arg Gly
 290 295 300
 Ser Arg Cys Ser Arg Ser Ala Ser Gly Arg Gly Arg Leu Ser Ala Leu
 305 310 315 320
 Gly Gly Glu Ala Gly Gly Pro Leu Gly
 325

<210> 3015

<211> 169

<212> PRT

<213> Homo sapiens

<400> 3015

```

Met Gly Ser Ser Lys Gly Leu Trp Lys Glu Lys Pro Ser Ala His Thr
  1             5             10             15
Ser Glu Cys Phe Ser Thr Thr Ala Cys Pro Val Ala Cys Ile Leu Leu
          20             25             30
Val Trp Asn Ser Gln Thr Pro Ala Gly Leu Gln Ser Leu Cys Thr Gly
          35             40             45
Arg His Pro Ser Leu Ser Ala Arg Ala Gln Trp Ala Gly Pro Arg Ala
          50             55             60
Ser Arg Glu Glu Gly Thr Phe Trp Thr Glu Pro Val Gly Gln Glu Arg
          65             70             75             80
Arg Leu Ile Arg Ser Gly Ser Ser Gln Asn Glu Ser Gln Glu Asp Gln
          85             90             95
Gly Ala Asp Leu Ile Ser His Glu Gly Leu Lys Ala Asp Asn Arg Arg
          100            105            110
Glu Ser Ser Thr Trp Ala Asn Glu Val Glu Asp Arg Arg Pro Gln Cys
          115            120            125
Thr Ser Ala Leu Asn Leu Thr Pro Ser His Leu His Pro Pro His Pro
          130            135            140
Leu Thr Thr Phe Phe Arg Asn Val Ile Gly Ile Lys Ile Pro Pro Gly
          145            150            155            160
Leu Val Ala Met Gly Gly Thr Val Ala
          165

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<210> 3016

<211> 155

<212> PRT

<213> Homo sapiens

<400> 3016

Met Arg Gly Ala Ala Gly Ala Ala Gly Ala Ser Ser Arg Glu Asp Gly
 1 5 10 15
 Cys Arg Val Pro Arg Pro Pro Pro Thr Pro Gly Gly Val Pro Ser Ser
 20 25 30
 Gln Leu Arg Pro Glu Arg Leu Leu Pro Gly Glu Ser Pro Pro Leu Cys
 35 40 45
 Asn Gln Pro Ala Ala Ala Glu Gly Ala Trp Val Pro Ser Ala Glu Pro
 50 55 60
 Ala Ala His Gly Arg Arg Arg Thr Val Pro Trp Trp Arg Ser Ala Pro
 65 70 75 80
 Ala Thr Arg Leu Ala Thr Pro Gly Arg Gly Pro Gly Gly Arg Gly Trp
 85 90 95
 Asp Leu Gly Ala Leu Arg Val Gly Pro Trp Gly Met Arg Leu Gly Pro
 100 105 110
 Ala Gly Asn Arg Ala Gly Ala Arg Arg Leu Ala Gly Leu Pro Ala Thr
 115 120 125
 Glu Cys Phe Asp Ala Phe Phe Asn Ser Ala Asn Val Ser Leu Ser Thr
 130 135 140
 Leu Ser Pro Ser Ser Ala Gln Arg Thr Val Leu
 145 150 155

<210> 3017

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3017

Met Lys Val Thr Gly Thr Pro Pro Ala Glu Phe Val Gln Arg Leu Gln
 1 5 10 15
 Ser Asp Glu Ala Lys Asn Tyr Met Lys Gly Leu Pro Glu Leu Glu Lys
 20 25 30
 Lys Asp Phe Ala Ser Ile Leu Thr Asn Ala Ser Pro Leu Ala Val Asn
 35 40 45
 Leu Leu Glu Lys Met Leu Val Leu Asp Ala Glu Gln Arg Val Thr Ala
 50 55 60

Gly Glu Ala Leu Ala His Pro Tyr Phe Glu Ser Leu His Asp Thr Glu
 65 70 75 80
 Asp Glu Pro Gln Val Gln Lys Tyr Asp Asp Ser Phe Asp Asp Val Asp
 85 90 95
 Arg Thr Leu Asp Glu Trp Lys Arg Glu Trp Gly Ala Pro Gly Thr Ala
 100 105 110
 Cys Val Asp Pro Ser Gly Gly Leu Trp Ala Gly Pro Val Trp Thr Arg
 115 120 125
 Glu Leu Gly Ala Leu Gly Arg Ala Cys Val Asn Pro
 130 135 140

<210> 3018

<211> 276

<212> PRT

<213> Homo sapiens

<400> 3018

Met Leu Ala Arg Arg Asp Leu Gly Leu Val Pro His Gly Val Ser Gly
 1 5 10 15
 Val Ser Ile Ala Ala Ser Ser Thr Pro Gln Gly Gln Ala Val Cys Ser
 20 25 30
 Pro Ser Val Ala Ala Pro Ser Thr Leu Leu Leu Leu Arg Thr His Leu
 35 40 45
 Leu Gly Ala Ala Ser Leu Gln Gly Cys Gly Val Leu His Ile Leu Pro
 50 55 60
 Ile Phe Leu Phe Ser Lys Gly Cys Arg Arg Asp Ala Gln Cys Ala Cys
 65 70 75 80
 Thr Val Gly Pro Ser Ala Ser Pro Arg Ser Gly Arg Gly Pro Gly Arg
 85 90 95
 Gly Gly Gly Arg Arg Pro Arg Leu Gly Ala Ala Arg Ser Gly Cys Pro
 100 105 110
 Gly Ala Ala Ala Ala Gly Gly Pro Ala Val Leu His Pro Trp Arg Arg
 115 120 125
 Ala Gly Gly Arg Val Arg Gly Ala Ser Pro Pro Gln Gly Pro Gln Thr
 130 135 140

Ala Arg Gly Phe Pro Leu Pro Ser Arg Trp Ser Ser Ser Pro Ile Pro
 145 150 155 160
 Gly Cys Ile Ser Ile Tyr Pro Ser Pro Ile Ser Phe Ala His Pro Gly
 165 170 175
 Ser Leu Ala Pro Leu Gly Ser Pro Phe Pro Ser Pro Gly Pro Pro Ser
 180 185 190
 Arg Ser Arg Leu Leu Cys Pro Gly Leu Arg Arg Gly Leu Thr Pro Gly
 195 200 205
 Arg Trp Phe Arg Pro Asp Leu Gly Ser Leu Val Thr Pro Arg Leu Leu
 210 215 220
 Pro Leu Pro Asn Ser Gly Glu Pro Gly Ile Lys Pro Cys Ala Phe Leu
 225 230 235 240
 Phe Phe Leu Leu Arg Ala Glu Ser Thr Leu His Val Cys Gln Gly Ile
 245 250 255
 Ser Ser Glu Ser Glu Arg Arg Thr Arg Ser Phe Phe Phe Phe Pro Arg
 260 265 270
 Ser Cys Leu Leu
 275

<210> 3019

<211> 520

<212> PRT

<213> Homo sapiens

<400> 3019

Met Ser Pro Pro Lys Asp Pro Ser Pro Ser Leu Pro Leu Pro Ser Ser
 1 5 10 15
 Ser Ser His Ser Ser Ser Pro Pro Ser Ser Ser Ser Thr Ser Val Ser
 20 25 30
 Gly Asn Ala Pro Asp Gly Ser Ser Pro Pro Gln Met Thr Ala Ser Glu
 35 40 45
 Pro Leu Ser Gln Val Ser Arg Gly His Pro Ser Pro Pro Thr Pro Asn
 50 55 60
 Phe Arg Arg Arg Ala Ile Ala Gln Gly Ala Pro Arg Glu Ile Pro Leu

65	70	75	80
Tyr Leu Pro His His Pro Lys Pro Glu Trp Ala Glu Tyr Cys Leu Val			
	85	90	95
Ser Pro Gly Glu Asp Gly Leu Ser Asp Pro Ala Glu Met Thr Ser Asp			
	100	105	110
Glu Cys Gln Pro Ala Glu Ala Pro Leu Gly Asp Ile Gly Ser Asn His			
	115	120	125
Arg Asp Pro His Pro Ile Trp Gly Lys Asp Arg Ser Trp Thr Gly Gln			
	130	135	140
Glu Leu Ser Pro Leu Ala Gly Glu Asp Arg Glu Lys Gly Ser Thr Gly			
145	150	155	160
Ala Arg Lys Glu Glu Glu Gly Gly Pro Val Leu Val Lys Glu Lys Leu			
	165	170	175
Gly Leu Lys Lys Leu Val Leu Thr Gln Glu Gln Lys Thr Met Leu Leu			
	180	185	190
Asp Trp Asn Asp Ser Ile Pro Glu Ser Val His Leu Lys Ala Gly Glu			
	195	200	205
Arg Ile Ser Gln Lys Ser Ala Glu Asn Gly Arg Gly Gly Arg Val Leu			
	210	215	220
Lys Pro Val Arg Pro Leu Leu Leu Pro Arg Ala Ala Gly Glu Pro Leu			
225	230	235	240
Pro Thr Gln Arg Gly Ala Gln Glu Lys Met Gly Thr Pro Ala Glu Gln			
	245	250	255
Ala Gln Gly Glu Arg Asn Val Pro Pro Pro Lys Ser Pro Leu Arg Leu			
	260	265	270
Ile Ala Asn Ala Ile Arg Arg Ser Leu Glu Pro Leu Leu Ser Asn Ser			
	275	280	285
Glu Gly Gly Lys Lys Ala Trp Ala Lys Gln Glu Ser Lys Thr Leu Pro			
	290	295	300
Thr Gln Ala Cys Thr Arg Ser Phe Gly Leu Arg Lys Thr Asn Ser Asn			
305	310	315	320
Lys Asp Gly Asp Gln His Ser Pro Gly Arg Asn Gln Ser Ser Ala Phe			
	325	330	335
Ser Pro Pro Asp Pro Ala Leu Arg Thr His Ser Leu Pro Asn Arg Pro			
	340	345	350

Ser Lys Val Phe Pro Ala Leu Arg Ser Pro Pro Cys Ser Lys Ile Glu
 355 360 365
 Asp Val Pro Thr Leu Leu Glu Lys Val Ser Leu Gln Glu Asn Phe Pro
 370 375 380
 Asp Ala Ser Lys Pro Pro Lys Lys Arg Ile Ser Leu Phe Ser Ser Leu
 385 390 395 400
 Arg Leu Lys Asp Lys Ser Phe Glu Ser Phe Leu Gln Glu Ser Arg Gln
 405 410 415
 Arg Lys Asp Ile Arg Asp Leu Phe Gly Ser Pro Lys Arg Lys Val Leu
 420 425 430
 Pro Glu Asp Ser Ala Gln Ala Leu Glu Lys Leu Leu Gln Pro Phe Lys
 435 440 445
 Ser Thr Ser Leu Arg Gln Ala Ala Pro Pro Pro Pro Pro Pro Pro
 450 455 460
 Pro Pro Pro Pro Pro Pro Pro Thr Ala Gly Gly Ala Asp Ser Lys Asn
 465 470 475 480
 Phe Pro Leu Arg Ala Gln Val Thr Glu Ala Ser Ser Ser Ala Ser Ser
 485 490 495
 Thr Ser Ser Ser Ser Ala Asp Glu Glu Phe Asp Pro Gln Leu Ser Leu
 500 505 510
 Gln Leu Lys Glu Lys Lys Thr Leu
 515 520

<210> 3020

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3020

Met Gly Pro Glu Gly Ala Leu Cys Val Tyr Val Gly Gly Gly Gly Ala
 1 5 10 15
 Val Leu Ala Ala Ser Val Leu Cys Val Thr Leu Pro Ser Lys Gly Pro
 20 25 30
 Val Leu Ser Val Pro Arg Glu Pro Gln Pro Lys Leu Arg Arg Glu Gly
 35 40 45

Gly Glu Gly Cys Gly Met Ala Val Gly His Ser Val Ala Asp Cys Ser
 50 55 60
 Val Ser Ala Gly Ser Phe Leu Gly Thr Trp Lys Ala Ser Val Ala Ser
 65 70 75 80
 Pro Ser Leu Pro Phe Thr Ala Gly Ser Leu Ser Ala Ser Pro Met Pro
 85 90 95
 Tyr Ala Trp Ala His Cys His Arg Ile Cys Asn Met Cys Gly
 100 105 110

<210> 3021

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3021

Met Leu Glu Phe Gln Glu Leu Met Thr Val Phe Gln Leu Leu His Trp
 1 5 10 15
 Asn Gly Ser Leu Lys Ala Met Arg Glu Arg Gln Cys Ser Arg Gln Glu
 20 25 30
 Val Leu Ala His Tyr Ser His Arg Ala Leu Asp Asp Asp Ile Arg His
 35 40 45
 Gln Met Ala Leu Asp Trp Val Ser Arg Glu Gln Ser Val Pro Gly Ala
 50 55 60
 Leu Ser Arg Glu Leu Ala Ser Thr Glu Arg Glu Leu Asp Glu Ala Arg
 65 70 75 80
 Leu Ala Gly Lys Glu Leu Arg Phe His Lys Glu Lys Lys Asp Ile Leu
 85 90 95
 Val Leu Ala Ala Gly Gln Leu Gly Asn Met His Ser Ser Asn Cys
 100 105 110

<210> 3022

<211> 723

<212> PRT

<213> Homo sapiens

<400> 3022

Met Ala Glu Glu Glu Gly Pro Pro Val Glu Leu Arg Gln Arg Lys Lys
 1 5 10 15
 Pro Lys Ser Ser Glu Asn Lys Glu Ser Ala Lys Glu Glu Lys Ile Ser
 20 25 30
 Asp Ile Pro Ile Pro Glu Arg Ala Pro Lys His Val Leu Phe Gln Arg
 35 40 45
 Phe Ala Lys Ile Phe Ile Gly Cys Leu Ala Ala Val Thr Ser Gly Met
 50 55 60
 Met Tyr Ala Leu Tyr Leu Ser Ala Tyr His Glu Arg Lys Phe Trp Phe
 65 70 75 80
 Ser Asn Arg Gln Glu Leu Glu Arg Glu Ile Thr Phe Gln Gly Asp Ser
 85 90 95
 Ala Ile Tyr Tyr Ser Tyr Tyr Lys Asp Met Leu Lys Ala Pro Ser Phe
 100 105 110
 Glu Arg Gly Val Tyr Glu Leu Thr His Asn Asn Lys Thr Val Ser Leu
 115 120 125
 Lys Thr Ile Asn Ala Val Gln Gln Met Ser Leu Tyr Pro Glu Leu Ile
 130 135 140
 Ala Ser Ile Leu Tyr Gln Ala Thr Gly Ser Asn Glu Ile Ile Glu Pro
 145 150 155 160
 Val Tyr Phe Tyr Ile Gly Ile Val Phe Gly Leu Gln Gly Ile Tyr Val
 165 170 175
 Thr Ala Leu Phe Val Thr Ser Trp Leu Met Ser Gly Thr Trp Leu Ala
 180 185 190
 Gly Met Leu Thr Val Ala Trp Phe Val Ile Asn Arg Val Asp Thr Thr
 195 200 205
 Arg Ile Glu Tyr Ser Ile Pro Leu Arg Glu Asn Trp Ala Leu Pro Tyr
 210 215 220
 Phe Ala Cys Gln Ile Ala Ala Leu Thr Gly Tyr Leu Lys Ser Asn Leu
 225 230 235 240
 Asn Thr Tyr Gly Glu Arg Phe Cys Tyr Leu Leu Met Ser Ala Ser Thr
 245 250 255
 Tyr Thr Phe Met Met Met Trp Glu Tyr Ser His Tyr Leu Leu Phe Leu
 260 265 270

Gln Ala Ile Ser Leu Phe Leu Leu Asp Thr Phe Ser Val Glu Gln Ser
 275 280 285
 Asp Lys Val Tyr Glu Val Tyr Lys Ile Tyr Ile Phe Ser Leu Phe Leu
 290 295 300
 Gly Tyr Leu Leu Gln Phe Glu Asn Pro Ala Leu Leu Val Ser Pro Leu
 305 310 315 320
 Leu Ser Leu Val Ala Ala Leu Met Leu Ala Lys Cys Leu Gln Leu Asn
 325 330 335
 Val Lys Lys Gly Ser Phe Val Ala Lys Ile Ile Lys Val Ile Asn Phe
 340 345 350
 Tyr Leu Val Cys Thr Leu Thr Ile Thr Leu Asn Ile Ile Met Lys Met
 355 360 365
 Phe Val Pro His Lys Glu Asn Gly His Met Leu Lys Phe Leu Glu Val
 370 375 380
 Lys Phe Gly Leu Asn Met Thr Lys Asn Phe Thr Met Asn Trp Leu Leu
 385 390 395 400
 Cys Gln Glu Ser Leu Gln Ala Pro Ser Gln Asp Phe Phe Leu Arg Leu
 405 410 415
 Thr Gln Ser Ser Leu Leu Pro Phe Tyr Ile Leu Val Leu Ile Ile Cys
 420 425 430
 Phe Leu Ser Met Leu Gln Val Ile Phe Arg Arg Ile Asn Gly Lys Ser
 435 440 445
 Leu Lys Glu Thr Val Thr Leu Glu Asp Gly Arg Ile Gly Glu Arg Pro
 450 455 460
 Glu Ile Ile Tyr His Val Ile His Thr Ile Leu Leu Gly Ser Leu Ala
 465 470 475 480
 Met Val Ile Glu Gly Leu Lys Tyr Ile Trp Ile Pro Tyr Val Cys Met
 485 490 495
 Leu Ala Ala Phe Gly Val Cys Ser Pro Glu Leu Trp Met Thr Leu Phe
 500 505 510
 Lys Trp Leu Arg Leu Arg Thr Val His Pro Ile Leu Leu Ala Leu Ile
 515 520 525
 Leu Ser Met Ala Val Pro Thr Ile Ile Gly Leu Ser Leu Trp Lys Glu
 530 535 540
 Phe Phe Pro Arg Leu Met Thr Glu Leu Met Glu Leu Gln Glu Phe Tyr

545 550 555 560
 Asp Pro Asp Thr Val Glu Leu Met Thr Trp Ile Lys Arg Gln Ala Pro
 565 570 575
 Val Ala Ala Val Phe Ala Gly Ser Pro Gln Leu Met Gly Ala Ile Lys
 580 585 590
 Leu Cys Thr Gly Trp Met Val Thr Ser Leu Pro Leu Tyr Asn Asp Asp
 595 600 605
 Asp Leu Leu Lys Arg Asn Glu Asn Ile Tyr Gln Ile Tyr Ser Lys Arg
 610 615 620
 Ser Ala Glu Asp Ile Tyr Lys Ile Leu Thr Ser Tyr Lys Ala Asn Tyr
 625 630 635 640
 Leu Ile Val Glu Asp Ala Ile Cys Asn Glu Val Gly Pro Thr Arg Gly
 645 650 655
 Cys Arg Val Lys Asp Leu Leu Asp Ile Ala Asn Gly His Met Val Cys
 660 665 670
 Glu Glu Gly Asp Lys Leu Thr Tyr Ser Lys Tyr Gly Arg Phe Cys His
 675 680 685
 Glu Val Lys Ile Asn Tyr Ser Pro Tyr Val Asn Tyr Phe Thr Arg Val
 690 695 700
 Tyr Trp Asn Arg Ser Tyr Phe Val Tyr Lys Ile Asn Thr Val Ile Ser
 705 710 715 720
 Phe Gln Ser

<210> 3023

<211> 164

<212> PRT

<213> Homo sapiens

<400> 3023

Met Gly Val Ser Val Asp Val His Gln Val Tyr Lys Tyr Pro Phe Glu
 1 5 10 15
 Gln Val Val Ala Ser Phe Leu Arg Lys Tyr Pro Asn Pro Met Asp Lys
 20 25 30
 Asn Val Ile Ser Val Lys Ile Met Glu Glu Lys Arg Asp Glu Ser Thr

35 40 45
 Gly Val Ile Tyr Arg Lys Arg Ile Ala Ile Cys Gln Asn Val Val Pro
 50 55 60
 Glu Ile Leu Arg Lys Val Ser Ile Leu Lys Val Pro Asn Ile Gln Leu
 65 70 75 80
 Glu Glu Glu Ser Trp Leu Asn Pro Arg Glu Arg Asn Met Ala Ile Arg
 85 90 95
 Ser His Cys Leu Thr Trp Thr Gln Tyr Ala Ser Met Lys Glu Glu Ser
 100 105 110
 Val Phe Arg Glu Ser Met Glu Asn Pro Asn Trp Thr Glu Phe Ile Gln
 115 120 125
 Arg Gly Arg Ile Ser Ile Thr Gly Val Gly Phe Leu Asn Cys Val Leu
 130 135 140
 Glu Thr Phe Ala Ser Thr Phe Leu Arg Gln Gly Ala Gln Lys Val Thr
 145 150 155 160
 Ile Phe Leu Leu

<210> 3024

<211> 735

<212> PRT

<213> Homo sapiens

<400> 3024

Met Ala Glu Pro Leu Leu Arg Lys Thr Phe Ser Arg Leu Arg Gly Arg
 1 5 10 15
 Glu Lys Leu Pro Arg Lys Lys Ser Asp Ala Lys Glu Arg Gly His Pro
 20 25 30
 Ala Gln Arg Pro Glu Pro Ser Pro Pro Glu Pro Glu Pro Gln Ala Pro
 35 40 45
 Glu Gly Ser Gln Ala Gly Ala Glu Gly Pro Ser Ser Pro Glu Ala Ser
 50 55 60
 Arg Ser Pro Ala Arg Gly Ala Tyr Leu Gln Ser Leu Glu Pro Ser Ser
 65 70 75 80
 Arg Arg Trp Val Leu Gly Gly Ala Lys Pro Ala Glu Asp Thr Ser Leu

	85	90	95
Gly Pro Gly Val Pro Gly Thr Gly Glu Pro Ala Gly Glu Ile Trp Tyr			
	100	105	110
Asn Pro Ile Pro Glu Glu Asp Pro Arg Pro Pro Ala Pro Glu Pro Pro			
	115	120	125
Gly Pro Gln Pro Gly Ser Ala Glu Ser Glu Gly Leu Ala Pro Gln Gly			
	130	135	140
Ala Ala Pro Ala Ser Pro Pro Thr Lys Ala Ser Arg Thr Lys Ser Pro			
145	150	155	160
Gly Pro Ala Arg Arg Leu Ser Ile Lys Met Lys Lys Leu Pro Glu Leu			
	165	170	175
Arg Arg Arg Leu Ser Leu Arg Gly Pro Arg Ala Gly Arg Glu Arg Glu			
	180	185	190
Arg Ala Ala Pro Ala Gly Ser Val Ile Ser Arg Tyr His Leu Asp Ser			
	195	200	205
Ser Val Gly Gly Pro Gly Pro Ala Ala Gly Pro Gly Gly Thr Arg Ser			
	210	215	220
Pro Arg Ala Gly Tyr Leu Ser Asp Gly Asp Ser Pro Glu Arg Pro Ala			
225	230	235	240
Gly Pro Pro Ser Pro Thr Ser Phe Arg Pro Tyr Glu Val Gly Pro Ala			
	245	250	255
Ala Arg Ala Pro Pro Ala Ala Leu Trp Gly Arg Leu Ser Leu His Leu			
	260	265	270
Tyr Gly Leu Gly Gly Leu Arg Pro Ala Pro Gly Ala Thr Pro Arg Asp			
	275	280	285
Leu Cys Cys Leu Leu Gln Val Asp Gly Glu Ala Arg Ala Arg Thr Gly			
	290	295	300
Pro Leu Arg Gly Gly Pro Asp Phe Leu Arg Leu Asp His Thr Phe His			
305	310	315	320
Leu Glu Leu Glu Ala Ala Arg Leu Leu Arg Ala Leu Val Leu Ala Trp			
	325	330	335
Asp Pro Gly Val Arg Arg His Arg Pro Cys Ala Gln Gly Thr Val Leu			
	340	345	350
Leu Pro Thr Val Phe Arg Gly Cys Gln Ala Gln Gln Leu Ala Val Arg			
	355	360	365
Leu Glu Pro Gln Gly Leu Leu Tyr Ala Lys Leu Thr Leu Ser Glu Gln			

370	375	380
Gln Glu Ala Pro Ala Thr Ala Glu Pro Arg Val Phe Gly Leu Pro Leu		
385	390	395
Pro Leu Leu Val Glu Arg Glu Arg Pro Pro Gly Gln Val Pro Leu Ile		
405	410	415
Ile Gln Lys Cys Val Gly Gln Ile Glu Arg Arg Gly Leu Arg Val Val		
420	425	430
Gly Leu Tyr Arg Leu Cys Gly Ser Ala Ala Val Lys Lys Glu Leu Arg		
435	440	445
Asp Ala Phe Glu Arg Asp Ser Ala Ala Val Cys Leu Ser Glu Asp Leu		
450	455	460
Tyr Pro Asp Ile Asn Val Ile Thr Gly Ile Leu Lys Asp Tyr Leu Arg		
465	470	475
Glu Leu Pro Thr Pro Leu Ile Thr Gln Pro Leu Tyr Lys Val Val Leu		
485	490	495
Glu Ala Met Ala Arg Asp Pro Pro Asn Arg Val Pro Pro Thr Thr Glu		
500	505	510
Gly Thr Arg Gly Leu Leu Ser Cys Leu Pro Asp Val Glu Arg Ala Thr		
515	520	525
Leu Thr Leu Leu Leu Asp His Leu Arg Leu Val Ser Ser Phe His Ala		
530	535	540
Tyr Asn Arg Met Thr Pro Gln Asn Leu Ala Val Cys Phe Gly Pro Val		
545	550	555
Leu Leu Pro Ala Arg Gln Ala Pro Thr Arg Pro Arg Ala Arg Ser Ser		
565	570	575
Gly Pro Gly Leu Ala Ser Ala Val Asp Phe Lys His His Ile Glu Val		
580	585	590
Leu His Tyr Leu Leu Gln Ser Trp Pro Asp Pro Arg Leu Pro Arg Gln		
595	600	605
Ser Pro Asp Val Ala Pro Tyr Leu Arg Pro Lys Arg Gln Pro Pro Leu		
610	615	620
His Leu Pro Leu Ala Asp Pro Glu Val Val Thr Arg Pro Arg Gly Arg		
625	630	635
Gly Gly Pro Glu Ser Pro Pro Ser Asn Arg Tyr Ala Gly Asp Trp Ser		
645	650	655
Val Cys Gly Arg Asp Phe Leu Pro Cys Gly Arg Asp Phe Leu Ser Gly		

660 665 670
 Pro Asp Tyr Asp His Val Thr Gly Ser Asp Ser Glu Asp Glu Asp Glu
 675 680 685
 Glu Val Gly Glu Pro Arg Val Thr Gly Asp Phe Glu Asp Asp Phe Asp
 690 695 700
 Ala Pro Phe Asn Pro His Leu Asn Leu Lys Asp Phe Asp Ala Leu Ile
 705 710 715 720
 Leu Asp Leu Glu Arg Glu Leu Ser Lys Gln Ile Asn Val Cys Leu
 725 730 735

<210> 3025

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3025

Met Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Ser Ala His Cys Ser
 1 5 10 15
 Leu His Leu Leu Gly Ser Ser Ser Pro Pro Thr Ser Thr Ser Leu Arg
 20 25 30
 Ala Glu Thr Thr Gly Val Ser His His Ala Trp Leu Ile Phe Arg Asp
 35 40 45
 Arg Val Ser Pro Ser Cys Pro Gly Trp Ser Gln Thr Pro Gly Leu Lys
 50 55 60
 Gln Ser Ser Cys Leu Ser Leu Pro Glu Tyr Trp Asp Tyr Arg Cys Glu
 65 70 75 80
 Pro Leu Pro Glu Lys Arg Phe Leu Arg Gln Gly Arg Ser Tyr Ile Ile
 85 90 95
 Phe Lys Phe Phe Leu Met Met Ser Phe Leu Ala Val His Ser Gln Arg
 100 105 110
 Thr Thr His His Thr Gln Glu Thr Val Val Leu Met
 115 120

<210> 3026

<211> 276

<212> PRT

<213> Homo sapiens

<400> 3026

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Met Ser Phe Glu Gly Gly Asp Gly Ala Gly Pro Ala Met Leu Ala Thr
  1              5              10              15
Gly Thr Ala Arg Met Ala Ser Gly Arg Pro Glu Glu Leu Trp Glu Ala
      20              25              30
Val Val Gly Ala Ala Glu Arg Phe Arg Ala Arg Thr Gly Thr Glu Leu
      35              40              45
Val Leu Leu Thr Ala Ala Pro Pro Pro Pro Arg Pro Gly Pro Cys
      50              55              60
Ala Tyr Ala Ala His Gly Arg Gly Ala Leu Ala Glu Ala Ala Arg Arg
      65              70              75              80
Cys Leu His Asp Ile Ala Leu Ala His Arg Ala Ala Thr Ala Ala Arg
      85              90              95
Pro Pro Ala Pro Pro Pro Ala Pro Gln Pro Pro Ser Pro Thr Pro Ser
      100             105             110
Pro Pro Arg Pro Thr Leu Ala Arg Glu Asp Asn Glu Glu Asp Glu Asp
      115             120             125
Glu Pro Thr Glu Thr Glu Thr Ser Gly Glu Gln Leu Gly Ile Ser Asp
      130             135             140
Asn Gly Gly Leu Phe Val Met Asp Glu Asp Ala Thr Leu Gln Asp Leu
      145             150             155             160
Pro Pro Phe Cys Glu Ser Asp Pro Glu Ser Thr Asp Asp Gly Ser Leu
      165             170             175
Ser Glu Glu Thr Pro Ala Gly Pro Pro Thr Cys Ser Val Pro Pro Ala
      180             185             190
Ser Ala Leu Pro Thr Gln Gln Tyr Ala Lys Ser Leu Pro Val Ser Val
      195             200             205
Pro Val Trp Gly Phe Lys Glu Lys Arg Thr Glu Ala Arg Ser Ser Asp
      210             215             220
Glu Glu Asn Gly Pro Pro Ser Ser Pro Asp Leu Asp Arg Ile Ala Ala
      225             230             235             240
Ser Met Arg Ala Leu Val Leu Arg Glu Ala Glu Asp Thr Gln Val Phe

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245 250 255
 Gly Asp Leu Pro Arg Pro Arg Leu Asn Thr Ser Asp Phe Gln Lys Leu
 260 265 270
 Lys Arg Lys Tyr
 275

<210> 3027

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3027

Met Lys Asn Ala Leu Gln Ala Trp Ser Ile Ile Thr Tyr Gly Ile Ser
 1 5 10 15
 Cys Phe Lys Ile Ser Ser Asp Ile Tyr Leu Val Lys Phe His Phe Arg
 20 25 30
 Arg Leu Arg Cys Arg Thr Leu Met Phe Ile Thr Ser Ser Tyr Pro Lys
 35 40 45
 Arg Asn Gly Phe Arg His Val Leu Ser Gln Gln Glu Ile Asp Phe Phe
 50 55 60
 Leu Asn Tyr Leu Ile Leu Leu Pro Asn Ile Thr Glu Val Met Arg Ser
 65 70 75 80
 Leu Val Thr Phe Gly Cys Cys Ala Leu Lys Glu Pro Gly Leu Glu Phe
 85 90 95
 Val Gly Val Ile
 100

<210> 3028

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3028

Met Asp Gln Leu Leu Asp Thr Ile Arg Ser Leu Thr Ile Gly Cys Ser

1	5	10	15
Ser Cys Ser Ser Leu Met Glu His Phe Glu Asp Thr Arg Glu Lys Asn			
20	25	30	
Glu Ala Leu Leu Gly Glu Leu Phe Ser Ser Pro His Leu Gln Met Leu			
35	40	45	
Leu Asn Pro Glu Cys Asp Pro Trp Pro Leu Asp Met Gln Pro Leu Leu			
50	55	60	
Asn Lys Gln Ser Asp Asp Trp Gln Trp Ala Ser Ala Ser Ala Lys Ser			
65	70	75	80
Glu Glu Glu Glu Lys Leu Ala Glu Leu Ala Arg Gln Leu Gln Glu Ser			
85	90	95	
Ala Ala Lys Leu His Ala Leu Arg Thr Glu Ser Thr Thr Thr Ser Trp			
100	105	110	
Ala Ser Ala Ala Ser Ala Gln Ala Leu Thr Ser Thr Arg Ala Ala Pro			
115	120	125	
Ser Ser Arg Pro Arg Thr Arg Ile			
130	135		

<210> 3029

<211> 617

<212> PRT

<213> Homo sapiens

<400> 3029

Met Val Pro Val Glu Asn Thr Glu Gly Pro Ser Leu Leu Asn Gln Lys			
1	5	10	15
Gly Thr Ala Val Glu Thr Glu Gly Ser Gly Ser Arg His Pro Pro Trp			
20	25	30	
Ala Arg Gly Cys Gly Met Phe Thr Phe Leu Ser Ser Val Thr Ala Ala			
35	40	45	
Val Ser Gly Leu Leu Val Gly Tyr Glu Leu Gly Ile Ile Ser Gly Ala			
50	55	60	
Leu Leu Gln Ile Lys Thr Leu Leu Ala Leu Ser Cys His Glu Gln Glu			
65	70	75	80

Met Val Val Ser Ser Leu Val Ile Gly Ala Leu Leu Ala Ser Leu Thr
 85 90 95
 Gly Gly Val Leu Ile Asp Arg Tyr Gly Arg Arg Thr Ala Ile Ile Leu
 100 105 110
 Ser Ser Cys Leu Leu Gly Leu Gly Ser Leu Val Leu Ile Leu Ser Leu
 115 120 125
 Ser Tyr Thr Val Leu Ile Val Gly Arg Ile Ala Ile Gly Val Ser Ile
 130 135 140
 Ser Leu Ser Ser Ile Ala Thr Cys Val Tyr Ile Ala Glu Ile Ala Pro
 145 150 155 160
 Gln His Arg Arg Gly Leu Leu Val Ser Leu Asn Glu Leu Met Ile Val
 165 170 175
 Ile Gly Ile Leu Ser Ala Tyr Ile Ser Asn Tyr Ala Phe Ala Asn Val
 180 185 190
 Phe His Gly Trp Lys Tyr Met Phe Gly Leu Val Ile Pro Leu Gly Val
 195 200 205
 Leu Gln Ala Ile Ala Met Tyr Phe Leu Pro Pro Ser Pro Arg Phe Leu
 210 215 220
 Val Met Lys Gly Gln Glu Gly Ala Ala Ser Lys Val Leu Gly Arg Leu
 225 230 235 240
 Arg Ala Leu Ser Asp Thr Thr Glu Glu Leu Thr Val Ile Lys Ser Ser
 245 250 255
 Leu Lys Asp Glu Tyr Gln Tyr Ser Phe Trp Asp Leu Phe Arg Ser Lys
 260 265 270
 Asp Asn Met Arg Thr Arg Ile Met Ile Gly Leu Thr Leu Val Phe Phe
 275 280 285
 Val Gln Ile Thr Gly Gln Pro Asn Ile Leu Phe Tyr Ala Ser Thr Val
 290 295 300
 Leu Lys Ser Val Gly Phe Gln Ser Asn Glu Ala Ala Ser Leu Ala Ser
 305 310 315 320
 Thr Gly Val Gly Val Val Lys Val Ile Ser Thr Ile Pro Ala Thr Leu
 325 330 335
 Leu Val Asp His Val Gly Ser Lys Thr Phe Leu Cys Ile Gly Ser Ser
 340 345 350
 Val Met Ala Ala Ser Leu Val Thr Met Gly Ile Val Asn Leu Asn Ile
 355 360 365

His Met Asn Phe Thr His Ile Cys Arg Ser His Asn Ser Ile Asn Gln
 370 375 380
 Ser Leu Asp Glu Ser Val Ile Tyr Gly Pro Gly Asn Leu Ser Thr Asn
 385 390 395 400
 Asn Asn Thr Leu Arg Asp His Phe Lys Gly Ile Ser Ser His Ser Arg
 405 410 415
 Ser Ser Leu Met Pro Leu Arg Asn Asp Val Asp Lys Arg Gly Glu Thr
 420 425 430
 Thr Ser Ala Ser Leu Leu Asn Ala Gly Leu Ser His Thr Glu Tyr Gln
 435 440 445
 Ile Val Thr Asp Pro Gly Asp Val Pro Ala Phe Leu Lys Trp Leu Ser
 450 455 460
 Leu Ala Ser Leu Leu Val Tyr Val Ala Ala Phe Ser Ile Gly Leu Gly
 465 470 475 480
 Pro Met Pro Trp Leu Val Leu Ser Glu Ile Phe Pro Gly Gly Ile Arg
 485 490 495
 Gly Arg Ala Met Ala Leu Thr Ser Ser Met Asn Trp Gly Ile Asn Leu
 500 505 510
 Leu Ile Ser Leu Thr Phe Leu Thr Val Thr Asp Leu Ile Gly Leu Pro
 515 520 525
 Trp Val Cys Phe Ile Tyr Thr Ile Met Ser Leu Ala Ser Leu Leu Phe
 530 535 540
 Val Val Met Phe Ile Pro Glu Thr Lys Gly Cys Ser Leu Glu Gln Ile
 545 550 555 560
 Ser Met Glu Leu Ala Lys Val Asn Tyr Val Lys Asn Asn Ile Cys Phe
 565 570 575
 Met Ser His His Gln Glu Glu Leu Val Pro Lys Gln Pro Gln Lys Arg
 580 585 590
 Lys Pro Gln Glu Gln Leu Leu Glu Cys Asn Lys Leu Cys Gly Arg Gly
 595 600 605
 Gln Ser Arg Gln Leu Ser Pro Glu Thr
 610 615

<210> 3030

<211> 895

<212> PRT

<213> Homo sapiens

<400> 3030

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Met Phe Pro Thr Gly Phe Ser Ser Pro Ser Pro Ser Ala Ala Ala Ala
  1             5             10             15
Ala Gln Glu Val Arg Ser Ala Thr Asp Gly Asn Thr Ser Thr Thr Pro
      20             25             30
Pro Thr Ser Ala Lys Lys Arg Lys Leu Asn Ser Ser Ser Ser Ser Ser
      35             40             45
Ser Asn Arg Ser Asn Glu Arg Glu Asp Phe Asp Ser Thr Ser Ser Ser
      50             55             60
Ser Ser Thr Pro Pro Leu Gln Pro Arg Asp Ser Ala Ser Pro Ser Thr
      65             70             75             80
Ser Ser Phe Cys Leu Gly Val Ser Val Ala Ala Ser Ser His Val Pro
      85             90             95
Ile Gln Lys Lys Leu Arg Phe Glu Asp Thr Leu Glu Phe Val Gly Phe
      100            105            110
Asp Ala Lys Met Ala Glu Glu Ser Ser Ser Ser Pro Ser Ser Ser Ser
      115            120            125
Pro Thr Ala Ala Thr Ser Gln Gln Gln Gln Leu Lys Asn Lys Ser Ile
      130            135            140
Leu Ile Ser Ser Val Ala Ser Val His His Ala Asn Gly Leu Ala Lys
      145            150            155            160
Ser Ser Thr Thr Val Ser Ser Phe Ala Asn Ser Lys Pro Gly Ser Ala
      165            170            175
Lys Lys Leu Val Ile Lys Asn Phe Lys Asp Lys Pro Lys Leu Pro Glu
      180            185            190
Asn Tyr Thr Asp Glu Thr Trp Gln Lys Leu Lys Glu Ala Val Glu Ala
      195            200            205
Ile Gln Asn Ser Thr Ser Ile Lys Tyr Asn Leu Glu Glu Leu Tyr Gln
      210            215            220
Ala Val Glu Asn Leu Cys Ser Tyr Lys Ile Ser Ala Asn Leu Tyr Lys
      225            230            235            240
Gln Leu Arg Gln Ile Cys Gly Asp His Ile Lys Ala Gln Ile His Gln
      245            250            255

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Phe Arg Glu Asp Ser Leu Asp Ser Val Leu Phe Leu Lys Lys Ile Asp
 260 265 270
 Arg Cys Trp Gln Asn His Cys Arg Gln Met Ile Met Ile Arg Ser Ile
 275 280 285
 Phe Leu Phe Leu Asp Arg Thr Tyr Val Leu Gln Asn Ser Met Leu Pro
 290 295 300
 Ser Ile Trp Asp Met Gly Leu Glu Leu Phe Arg Ala His Ile Ile Ser
 305 310 315 320
 Asp Gln Lys Val Gln Asn Lys Thr Ile Asp Gly Ile Leu Leu Leu Ile
 325 330 335
 Glu Arg Glu Arg Asn Gly Glu Ala Ile Asp Arg Ser Leu Leu Arg Ser
 340 345 350
 Leu Leu Ser Met Leu Ser Asp Leu Gln Ile Tyr Gln Asp Ser Phe Glu
 355 360 365
 Gln Arg Phe Leu Glu Glu Thr Asn Arg Leu Tyr Ala Ala Glu Gly Gln
 370 375 380
 Lys Leu Met Gln Glu Arg Glu Val Pro Glu Tyr Leu His His Val Asn
 385 390 395 400
 Lys Arg Leu Glu Glu Glu Ala Asp Arg Leu Ile Thr Tyr Leu Asp Gln
 405 410 415
 Thr Thr Gln Lys Ser Leu Ile Ala Thr Val Glu Lys Gln Leu Leu Gly
 420 425 430
 Glu His Leu Thr Ala Ile Leu Gln Lys Gly Leu Asn Asn Leu Leu Asp
 435 440 445
 Glu Asn Arg Ile Gln Asp Leu Ser Leu Leu Tyr Gln Leu Phe Ser Arg
 450 455 460
 Val Arg Gly Gly Val Gln Val Leu Leu Gln Gln Trp Ile Glu Tyr Ile
 465 470 475 480
 Lys Ala Phe Gly Ser Thr Ile Val Ile Asn Pro Glu Lys Asp Lys Thr
 485 490 495
 Met Val Gln Glu Leu Leu Asp Phe Lys Asp Lys Val Asp His Ile Ile
 500 505 510
 Asp Ile Cys Phe Leu Lys Asn Glu Lys Phe Ile Asn Ala Met Lys Glu
 515 520 525
 Ala Phe Glu Thr Phe Ile Asn Lys Arg Pro Asn Lys Pro Ala Glu Leu
 530 535 540

Ile Ala Lys Tyr Val Asp Ser Lys Leu Arg Ala Gly Asn Lys Glu Ala
 545 550 555 560
 Thr Asp Glu Glu Leu Glu Lys Met Leu Asp Lys Ile Met Ile Ile Phe
 565 570 575
 Arg Phe Ile Tyr Gly Lys Asp Val Phe Glu Ala Phe Tyr Lys Lys Asp
 580 585 590
 Leu Ala Lys Arg Leu Leu Val Gly Lys Ser Ala Ser Val Asp Ala Glu
 595 600 605
 Lys Ser Met Leu Ser Lys Leu Lys His Glu Cys Gly Ala Ala Phe Thr
 610 615 620
 Ser Lys Leu Glu Gly Met Phe Lys Asp Met Glu Leu Ser Lys Asp Ile
 625 630 635 640
 Met Ile Gln Phe Lys Gln Tyr Met Gln Asn Gln Asn Val Pro Gly Asn
 645 650 655
 Ile Glu Leu Thr Val Asn Ile Leu Thr Met Gly Tyr Trp Pro Thr Tyr
 660 665 670
 Val Pro Met Glu Val His Leu Pro Pro Glu Met Val Lys Leu Gln Glu
 675 680 685
 Ile Phe Lys Thr Phe Tyr Leu Gly Lys His Ser Gly Arg Lys Leu Gln
 690 695 700
 Trp Gln Ser Thr Leu Gly His Cys Val Leu Lys Ala Glu Phe Lys Glu
 705 710 715 720
 Gly Lys Lys Glu Leu Gln Val Ser Leu Phe Gln Thr Leu Val Leu Leu
 725 730 735
 Met Phe Asn Glu Gly Glu Glu Phe Ser Leu Glu Glu Ile Lys Gln Ala
 740 745 750
 Thr Gly Ile Glu Asp Gly Glu Leu Arg Arg Thr Leu Gln Ser Leu Ala
 755 760 765
 Cys Gly Lys Ala Arg Val Leu Ala Lys Asn Pro Lys Gly Lys Asp Ile
 770 775 780
 Glu Asp Gly Asp Lys Phe Ile Cys Asn Asp Asp Phe Lys His Lys Leu
 785 790 795 800
 Phe Arg Ile Lys Ile Asn Gln Ile Gln Met Lys Glu Thr Val Glu Glu
 805 810 815
 Gln Ala Ser Thr Thr Glu Arg Val Phe Gln Asp Arg Gln Tyr Gln Ile
 820 825 830

Asp	Ala	Ala	Ile	Val	Arg	Ile	Met	Lys	Met	Arg	Lys	Thr	Leu	Ser	His	
835					840					845						
Asn	Leu	Leu	Val	Ser	Glu	Val	Tyr	Asn	Gln	Leu	Lys	Phe	Pro	Val	Lys	
850					855					860						
Pro	Ala	Asp	Leu	Lys	Lys	Arg	Ile	Glu	Ser	Leu	Ile	Asp	Arg	Asp	Tyr	
865					870					875					880	
Met	Glu	Arg	Asp	Lys	Glu	Asn	Pro	Asn	Gln	Tyr	Asn	Tyr	Ile	Ala		
885					890					895						

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<210> 3031
<211> 160
<212> PRT
<213> Homo sapiens
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<400> 3031

Met	Leu	Ser	His	Leu	Leu	Ala	Tyr	Arg	Arg	Ser	Arg	Asp	Phe	Ile	Asp
1				5					10					15	
Val	Cys	Glu	Val	Ser	Glu	Asn	Val	Pro	Ala	Phe	Thr	Pro	Ala	Phe	Ser
				20				25					30		
His	Trp	His	Leu	Leu	Leu	Thr	Trp	Ala	Ile	Trp	Pro	Cys	Met	Val	Leu
				35			40					45			
Gly	Glu	Ser	Ser	Leu	Thr	Leu	Gln	Met	Leu	Ser	Ser	Asp	Leu	Ala	Gly
		50					55				60				
Lys	Gly	Asp	Gln	Glu	Cys	Arg	Ala	Pro	Ala	Glu	Asp	Ser	Pro	Lys	Pro
65					70				75					80	
Lys	Ser	Gln	Arg	Val	Gly	Ala	Pro	Thr	Thr	Ser	Ala	Cys	Met	Pro	Phe
				85				90					95		
Pro	Gly	Ser	Pro	Gln	Ala	Asp	Ser	Gln	His	Pro	Leu	Pro	Lys	Asp	Arg
			100				105					110			
Ala	Val	Pro	Asp	Gln	His	Pro	Thr	Lys	Ser	Ser	Val	Arg	Pro	Val	Phe
		115					120				125				
Gly	Gly	Ala	Gly	Phe	Gln	Glu	Asp	Ser	Gly	Gly	Gly	Val	Glu	Leu	Met
	130					135					140				
Ala	Gly	Gly	Ser	Gly	Pro	Leu	Arg	Lys	Leu	Cys	His	Trp	Ala	Trp	Gly
145				150					155					160	

<210> 3032

<211> 570

<212> PRT

<213> Homo sapiens

<400> 3032

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Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu
  1             5             10             15
Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala
      20             25             30
Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Gly Ala Gly Leu
      35             40             45
Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro Gly Gly Lys Pro Leu Lys
      50             55             60
Pro Val Pro Gly Gly Leu Ala Gly Ala Gly Leu Gly Ala Gly Val Gly
      65             70             75             80
Gly Ala Phe Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln
      85             90             95
Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly
      100            105            110
Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro
      115            120            125
Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys
      130            135            140
Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val
      145            150            155            160
Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly
      165            170            175
Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala
      180            185            190
Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly
      195            200            205
Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val Pro Gly Ala Gly Val
      210            215            220

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Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala
 225 230 235 240
 Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala
 245 250 255
 Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val
 260 265 270
 Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro
 275 280 285
 Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro
 290 295 300
 Ser Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile
 305 310 315 320
 Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly
 325 330 335
 Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly
 340 345 350
 Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala
 355 360 365
 Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly
 370 375 380
 Pro Gly Gly Ile Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala
 385 390 395 400
 Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly
 405 410 415
 Leu Gly Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val
 420 425 430
 Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro
 435 440 445
 Gly Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro
 450 455 460
 Gly Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly
 465 470 475 480
 Gly Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala
 485 490 495
 Ala Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly
 500 505 510

Gly Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly
515 520 525

Gly Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Ala
530 535 540

Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys
545 550 555 560

Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
565 570

<210> 3033

<211> 493

<212> PRT

<213> Homo sapiens

<400> 3033

Met	Val	Ala	Asp	Pro	Pro	Arg	Asp	Ser	Lys	Gly	Leu	Ala	Ala	Ala	Glu
1				5					10					15	
Pro	Thr	Ala	Asn	Gly	Gly	Leu	Ala	Leu	Ala	Ser	Ile	Glu	Asp	Gln	Gly
			20					25					30		
Ala	Ala	Ala	Gly	Gly	Tyr	Cys	Gly	Ser	Arg	Asp	Gln	Val	Arg	Arg	Cys
		35					40					45			
Leu	Arg	Ala	Asn	Leu	Leu	Val	Leu	Leu	Thr	Val	Val	Val	Cys	Ser	Leu
	50					55				60					
Ile	Gly	Gly	Ala	Ala	Ser	Leu	Asp	Pro	Gly	Ala	Leu	Gly	Arg	Leu	Gly
65					70					75				80	
Ala	Trp	Ala	Leu	Leu	Phe	Phe	Leu	Val	Thr	Thr	Leu	Leu	Ala	Ser	Ala
			85						90					95	
Leu	Gly	Val	Gly	Leu	Ala	Leu	Ala	Leu	Gln	Pro	Gly	Ala	Ala	Ser	Ala
		100						105				110			
Ala	Ile	Asn	Ala	Ser	Val	Gly	Ala	Ala	Gly	Ser	Ala	Glu	Asn	Ala	Pro
	115						120					125			
Ser	Lys	Glu	Val	Leu	Asp	Ser	Phe	Leu	Asp	Leu	Ala	Arg	Asn	Ile	Phe
	130					135					140				
Pro	Ser	Asn	Leu	Val	Ser	Ala	Ala	Phe	Arg	Ser	Tyr	Ser	Thr	Thr	Tyr
145					150					155					160

Glu Glu Arg Asn Ile Thr Gly Thr Arg Val Lys Val Pro Val Gly Gln
 165 170 175
 Glu Val Glu Gly Met Asn Ile Leu Gly Leu Val Val Phe Ala Ile Val
 180 185 190
 Phe Gly Val Ala Leu Arg Lys Leu Gly Pro Glu Gly Glu Leu Leu Ile
 195 200 205
 Arg Phe Phe Asn Ser Phe Asn Glu Ala Thr Met Val Leu Val Ser Trp
 210 215 220
 Ile Met Trp Tyr Ala Pro Val Gly Ile Met Phe Leu Val Ala Gly Lys
 225 230 235 240
 Ile Val Glu Met Glu Asp Val Gly Leu Leu Phe Ala Arg Leu Gly Lys
 245 250 255
 Tyr Ile Leu Cys Cys Leu Leu Gly His Ala Ile His Gly Leu Leu Val
 260 265 270
 Leu Pro Leu Ile Tyr Phe Leu Phe Thr Arg Lys Asn Pro Tyr Arg Phe
 275 280 285
 Leu Trp Gly Ile Val Thr Pro Leu Ala Thr Ala Phe Gly Thr Ser Ser
 290 295 300
 Ser Ser Ala Thr Leu Pro Leu Met Met Lys Cys Val Glu Glu Asn Asn
 305 310 315 320
 Gly Val Ala Lys His Ile Ser Arg Phe Ile Leu Pro Ile Gly Ala Thr
 325 330 335
 Val Asn Met Asp Gly Ala Ala Leu Phe Gln Cys Val Ala Ala Val Phe
 340 345 350
 Ile Ala Gln Leu Ser Gln Gln Ser Leu Asp Phe Val Lys Ile Ile Thr
 355 360 365
 Ile Leu Val Thr Ala Thr Ala Ser Ser Val Gly Ala Ala Gly Ile Pro
 370 375 380
 Ala Gly Gly Val Leu Thr Leu Ala Ile Ile Leu Glu Ala Val Asn Leu
 385 390 395 400
 Pro Val Asp His Ile Ser Leu Ile Leu Ala Val Asp Trp Leu Val Asp
 405 410 415
 Arg Ser Cys Thr Val Leu Asn Val Glu Gly Asp Ala Leu Gly Ala Gly
 420 425 430
 Leu Leu Gln Asn Tyr Val Asp Arg Thr Glu Ser Arg Ser Thr Glu Pro
 435 440 445

Glu Leu Ile Gln Val Lys Ser Glu Leu Pro Leu Asp Pro Leu Pro Val
 450 455 460
 Pro Thr Glu Glu Gly Asn Pro Leu Leu Lys His Tyr Arg Gly Pro Ala
 465 470 475 480
 Gly Asp Ala Thr Val Ala Ser Glu Lys Glu Ser Val Met
 485 490

<210> 3034

<211> 675

<212> PRT

<213> Homo sapiens

<400> 3034

Met Arg Pro Leu Arg Pro Arg Ala Ala Leu Leu Ala Leu Leu Ala Ser
 1 5 10 15
 Leu Leu Ala Ala Pro Pro Val Ala Pro Ala Glu Ala Pro His Leu Val
 20 25 30
 His Val Asp Ala Ala Arg Ala Leu Trp Pro Leu Arg Arg Phe Trp Arg
 35 40 45
 Ser Thr Gly Phe Trp Gly Ser Thr Gly Arg Gly Leu Ser Tyr Asn Phe
 50 55 60
 Thr His Leu Asp Gly Tyr Leu Asp Leu Leu Arg Glu Asn Gln Leu Leu
 65 70 75 80
 Pro Gly Phe Glu Leu Met Gly Ser Ala Ser Gly His Phe Thr Asp Phe
 85 90 95
 Glu Asp Lys Gln Gln Val Phe Glu Trp Lys Asp Leu Val Ser Ser Leu
 100 105 110
 Ala Arg Arg Tyr Ile Gly Arg Tyr Gly Leu Ala His Val Ser Lys Trp
 115 120 125
 Asn Phe Glu Thr Trp Asn Glu Pro Asp His His Asp Phe Asp Asn Val
 130 135 140
 Ser Met Thr Met Gln Gly Phe Leu Asn Tyr Tyr Asp Ala Cys Ser Glu
 145 150 155 160
 Gly Leu Arg Ala Ala Ser Pro Ala Leu Arg Leu Gly Gly Pro Gly Asp
 165 170 175

Ser Phe His Thr Pro Pro Arg Ser Pro Leu Ser Trp Gly Leu Leu Arg
 180 185 190
 His Cys His Asp Gly Thr Asn Phe Phe Thr Gly Glu Ala Gly Val Arg
 195 200 205
 Leu Asp Tyr Ile Ser Leu His Arg Lys Val Arg Pro Ala Pro Pro Ser
 210 215 220
 Ala Pro Val Phe Cys Ala Leu Ser Arg Cys Ala Pro Gly Arg Ala Asp
 225 230 235 240
 Pro Gly Gly Ala Glu Ala Ala Pro Pro Ala Gly Cys Ala Gln Leu His
 245 250 255
 Leu His Pro Gly Ala Gly Glu Gly Arg Arg Ala Ala Asp Pro Ala Ala
 260 265 270
 Leu Pro Gln Val Arg Gly His Pro His Leu Gln Arg Arg Gly Gly Pro
 275 280 285
 Ala Gly Gly Leu Val Pro Ala Thr Ala Val Glu Gly Gly Arg Asp Leu
 290 295 300
 Arg Gly His Gly Gly Glu Gly Gly Pro Ala Gln Arg Pro Ala Arg Pro
 305 310 315 320
 Pro Ala Thr Phe Leu Pro Arg Arg Asp Arg Arg Ala Val Ala Ala Pro
 325 330 335
 Pro Gly Pro Ser Cys Pro Gly His Pro Gln Val Ile Ala Gln His Gln
 340 345 350
 Asn Leu Leu Leu Ala Asn Thr Thr Ser Ala Phe Pro Tyr Ala Leu Leu
 355 360 365
 Ser Asn Asp Asn Ala Phe Leu Ser Tyr His Pro His Pro Phe Ala Gln
 370 375 380
 Arg Thr Leu Thr Ala Arg Phe Gln Val Asn Asn Thr Arg Pro Pro His
 385 390 395 400
 Val Gln Leu Leu Arg Lys Pro Val Leu Thr Ala Met Gly Leu Leu Ala
 405 410 415
 Leu Leu Asp Glu Glu Gln Leu Trp Ala Glu Val Ser Gln Ala Gly Thr
 420 425 430
 Val Leu Asp Ser Asn His Thr Val Gly Val Leu Ala Ser Ala His Arg
 435 440 445
 Pro Gln Gly Pro Ala Asp Ala Trp Arg Ala Ala Val Leu Ile Tyr Ala
 450 455 460

Ser Asp Asp Thr Arg Ala His Pro Asn Arg Ser Val Ala Val Thr Leu
 465 470 475 480
 Arg Leu Arg Gly Val Pro Pro Gly Pro Gly Leu Val Tyr Val Thr Arg
 485 490 495
 Tyr Leu Asp Asn Gly Leu Cys Ser Pro Asp Gly Glu Trp Arg Arg Leu
 500 505 510
 Gly Arg Pro Val Phe Pro Thr Ala Glu Gln Phe Arg Arg Met Arg Ala
 515 520 525
 Ala Glu Asp Pro Val Ala Ala Ala Pro Arg Pro Leu Pro Ala Gly Gly
 530 535 540
 Arg Leu Thr Leu Arg Pro Ala Leu Arg Leu Pro Ser Leu Leu Leu Val
 545 550 555 560
 His Val Cys Ala Arg Pro Glu Lys Pro Pro Gly Gln Val Thr Arg Leu
 565 570 575
 Arg Ala Leu Pro Leu Thr Gln Gly Gln Leu Val Leu Val Trp Ser Asp
 580 585 590
 Glu His Val Gly Ser Lys Cys Leu Trp Thr Tyr Glu Ile Gln Phe Ser
 595 600 605
 Gln Asp Gly Lys Ala Tyr Thr Pro Val Ser Arg Lys Pro Ser Thr Phe
 610 615 620
 Asn Leu Phe Val Phe Ser Pro Asp Thr Gly Ala Val Ser Gly Ser Tyr
 625 630 635 640
 Arg Val Arg Ala Leu Asp Tyr Trp Ala Arg Pro Gly Pro Phe Ser Asp
 645 650 655
 Pro Val Pro Tyr Leu Glu Val Pro Val Pro Arg Gly Pro Pro Ser Pro
 660 665 670
 Gly Asn Pro
 675

<210> 3035

<211> 334

<212> PRT

<213> Homo sapiens

<400> 3035

Met His Ser Ser Ser Phe Arg Phe Val Asn Ile Trp Pro Ala Leu Phe
 1 5 10 15
 Phe Ala Pro Arg Ser Val Val Arg Arg Ala Ala Ser Leu Leu Ser Lys
 20 25 30
 Val Val Asp Ser Leu Ala Pro Ser Ile Thr Asn Val Leu Val Gln Gly
 35 40 45
 Lys Gln Val Thr Leu Gly Ala Phe Gly His Glu Glu Glu Val Ile Ser
 50 55 60
 Asn Pro Leu Ser Pro Arg Val Ile Gln Asn Ile Ile Tyr Tyr Lys Cys
 65 70 75 80
 Asn Thr His Asp Glu Arg Glu Ala Val Ile Gln Gln Glu Leu Val Ile
 85 90 95
 His Ile Gly Trp Ile Ile Ser Asn Asn Pro Glu Leu Phe Ser Gly Met
 100 105 110
 Leu Lys Ile Arg Ile Gly Trp Ile Ile His Ala Met Glu Tyr Glu Leu
 115 120 125
 Gln Ile Arg Gly Gly Asp Lys Pro Ala Leu Asp Leu Tyr Gln Leu Ser
 130 135 140
 Pro Ser Glu Val Lys Gln Leu Leu Leu Asp Ile Leu Gln Pro Gln Gln
 145 150 155 160
 Asn Gly Arg Cys Trp Leu Asn Arg Arg Gln Ile Asp Gly Ser Leu Asn
 165 170 175
 Arg Thr Pro Thr Gly Phe Tyr Asp Arg Val Trp Gln Ile Leu Glu Arg
 180 185 190
 Thr Pro Asn Gly Ile Ile Val Ala Gly Lys His Leu Pro Gln Gln Pro
 195 200 205
 Thr Leu Ser Asp Met Thr Met Tyr Glu Met Asn Phe Ser Leu Leu Val
 210 215 220
 Glu Asp Thr Leu Gly Asn Ile Asp Gln Pro Gln Tyr Arg Gln Ile Val
 225 230 235 240
 Val Glu Leu Leu Met Val Val Ser Ile Val Leu Glu Arg Asn Pro Glu
 245 250 255
 Leu Glu Phe Gln Asp Lys Val Asp Leu Asp Arg Leu Val Lys Glu Ala
 260 265 270
 Phe Asn Glu Phe Gln Lys Asp Gln Ser Arg Leu Lys Glu Ile Glu Lys
 275 280 285

Gln Asp Asp Met Thr Ser Phe Tyr Asn Thr Pro Pro Leu Gly Lys Arg
 290 295 300
 Gly Thr Cys Ser Tyr Leu Thr Lys Ala Val Met Asn Leu Leu Leu Glu
 305 310 315 320
 Gly Glu Val Lys Pro Asn Asn Asp Asp Pro Cys Leu Ile Ser
 325 330

<210> 3036

<211> 578

<212> PRT

<213> Homo sapiens

<400> 3036

Met Gly Asp Ser Pro Gly Arg Gly Ala Pro Glu Arg Arg His Lys Ala
 1 5 10 15
 Gln Pro Gly Arg Ala Arg Lys Tyr Glu Trp Arg Pro Glu Gly Pro Thr
 20 25 30
 Ser Met Gly Ser Leu Gly Gln Arg Glu Asp Leu Gln Asp Glu Asp Arg
 35 40 45
 Asn Ser Ala Phe Thr Trp Lys Val Gln Ala Asn Asn Arg Ala Tyr Asn
 50 55 60
 Gly Gln Phe Lys Glu Lys Val Ile Leu Cys Trp Gln Arg Lys Lys Tyr
 65 70 75 80
 Lys Thr Asn Val Ile Arg Thr Ala Lys Tyr Asn Phe Tyr Ser Phe Leu
 85 90 95
 Pro Leu Asn Leu Tyr Glu Gln Phe His Arg Val Ser Asn Leu Phe Phe
 100 105 110
 Leu Ile Ile Ile Ile Leu Gln Ser Ile Pro Asp Ile Ser Thr Leu Pro
 115 120 125
 Trp Phe Ser Leu Ser Thr Pro Met Val Cys Leu Leu Phe Ile Arg Ala
 130 135 140
 Thr Arg Asp Leu Val Asp Asp Met Gly Arg His Lys Ser Asp Arg Ala
 145 150 155 160
 Ile Asn Asn Arg Pro Cys Gln Ile Leu Met Gly Lys Ser Phe Lys Gln
 165 170 175

Lys Lys Trp Gln Asp Leu Cys Val Gly Asp Val Val Cys Leu Arg Lys
 180 185 190
 Asp Asn Ile Val Pro Ala Asp Met Leu Leu Leu Ala Ser Thr Glu Pro
 195 200 205
 Ser Ser Leu Cys Tyr Val Glu Thr Val Asp Ile Asp Gly Glu Thr Asn
 210 215 220
 Leu Lys Phe Arg Gln Ala Leu Met Val Thr His Lys Glu Leu Ala Thr
 225 230 235 240
 Ile Lys Lys Met Ala Ser Phe Gln Gly Thr Val Thr Cys Glu Ala Pro
 245 250 255
 Asn Ser Arg Met His His Phe Val Gly Cys Leu Glu Trp Asn Asp Lys
 260 265 270
 Lys Tyr Ser Leu Asp Ile Gly Asn Leu Leu Leu Arg Gly Cys Arg Ile
 275 280 285
 Arg Asn Thr Asp Thr Cys Tyr Gly Leu Val Ile Tyr Ala Gly Phe Asp
 290 295 300
 Thr Lys Ile Met Lys Asn Cys Gly Lys Ile His Leu Lys Arg Thr Lys
 305 310 315 320
 Leu Asp Leu Leu Met Asn Lys Leu Val Val Val Ile Phe Ile Ser Val
 325 330 335
 Val Leu Val Cys Leu Val Leu Ala Phe Gly Phe Gly Phe Ser Val Lys
 340 345 350
 Glu Phe Lys Asp His His Tyr Tyr Leu Ser Gly Val His Gly Ser Ser
 355 360 365
 Val Ala Ala Glu Ser Phe Phe Val Phe Trp Ser Phe Leu Ile Leu Leu
 370 375 380
 Ser Val Thr Ile Pro Met Ser Met Phe Ile Leu Ser Glu Phe Ile Tyr
 385 390 395 400
 Leu Gly Asn Ser Val Phe Ile Asp Trp Asp Val Gln Met Tyr Tyr Lys
 405 410 415
 Pro Gln Asp Val Pro Ala Lys Ala Arg Ser Thr Ser Leu Asn Asp His
 420 425 430
 Leu Gly Gln Val Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr
 435 440 445
 Gln Asn Ile Leu Thr Phe Asn Lys Cys Cys Ile Ser Gly Arg Val Tyr

450 455 460
 Gly Ala Ala Pro Thr Pro Glu Leu Pro Ala Gly Ser Ser Ile Phe Lys
 465 470 475 480
 Gly Leu Arg Val Pro Glu Asn Gln Ser His Val Trp Pro His Ala Gln
 485 490 495
 His Leu Arg Pro Asn Leu Asn Gln Gly Thr Val Ala Arg Trp Pro Gly
 500 505 510
 Phe Leu Trp Arg Gly Pro Gly Lys Phe Phe Phe Phe Leu Arg Gln Ser
 515 520 525
 Leu Thr Leu Ser Thr Gln Ala Gly Val Gln Trp Cys Asn Leu Gly Ser
 530 535 540
 Leu Gln Ser Pro Pro Pro Gly Phe Arg Arg Phe Ser Trp Leu Ser Leu
 545 550 555 560
 Pro Ser Gly Trp Asp Tyr Arg His Leu Pro Pro His Leu Ile Phe Leu
 565 570 575
 Tyr Phe

<210> 3037

<211> 409

<212> PRT

<213> Homo sapiens

<400> 3037

Met Gln Val Thr Leu Lys Thr Leu Gln Gln Gln Thr Phe Lys Ile Asp
 1 5 10 15
 Ile Asp Pro Glu Glu Thr Val Lys Ala Leu Lys Glu Lys Ile Glu Ser
 20 25 30
 Glu Lys Gly Lys Asp Ala Phe Pro Val Ala Gly Gln Lys Leu Ile Tyr
 35 40 45
 Ala Gly Lys Ile Leu Asn Asp Asp Thr Ala Leu Lys Glu Tyr Lys Ile
 50 55 60
 Asp Glu Lys Asn Phe Val Val Val Met Val Thr Lys Pro Lys Ala Val
 65 70 75 80
 Ser Thr Pro Ala Pro Ala Thr Thr Gln Gln Ser Ala Pro Ala Ser Thr

Ala Ile Glu Arg Leu Lys Ala Leu Gly Phe Pro Glu Gly Leu Val Ile
 370 375 380
 Gln Ala Tyr Phe Ala Cys Glu Lys Asn Glu Asn Leu Ala Ala Asn Phe
 385 390 395 400
 Leu Leu Gln Gln Asn Phe Asp Glu Asp
 405

<210> 3038

<211> 521

<212> PRT

<213> Homo sapiens

<400> 3038

Met Pro Ser Ala Lys Gln Arg Gly Ser Lys Gly Gly His Gly Ala Ala
 1 5 10 15
 Ser Pro Ser Glu Lys Gly Ala His Pro Ser Gly Gly Ala Asp Asp Val
 20 25 30
 Ala Lys Lys Pro Pro Pro Ala Ala Phe Ser Gly Trp Cys Val His His
 35 40 45
 Val Leu Glu Glu Val Gln Gln Val Arg Arg Ser His Gln Asp Phe Ser
 50 55 60
 Arg Gln Arg Glu Glu Leu Gly Gln Gly Leu Gln Gly Val Glu Gln Lys
 65 70 75 80
 Val Gln Ser Leu Gln Ala Thr Phe Gly Thr Phe Glu Ser Ile Leu Arg
 85 90 95
 Ser Ser Gln His Lys Gln Asp Leu Thr Glu Lys Ala Val Lys Gln Gly
 100 105 110
 Glu Ser Glu Val Ser Arg Ile Ser Glu Val Leu Gln Lys Leu Gln Asn
 115 120 125
 Glu Ile Leu Lys Asp Leu Ser Asp Gly Ile His Val Val Lys Asp Ala
 130 135 140
 Arg Glu Arg Asp Phe Thr Ser Leu Glu Asn Thr Val Glu Glu Arg Leu
 145 150 155 160
 Thr Glu Leu Thr Lys Ser Ile Asn Asp Asn Ile Ala Ile Phe Thr Glu
 165 170 175

Val Gln Lys Arg Ser Gln Lys Glu Ile Asn Asp Met Lys Ala Lys Val
 180 185 190
 Ala Ser Leu Glu Glu Ser Glu Gly Asn Lys Gln Asp Leu Lys Ala Leu
 195 200 205
 Lys Glu Ala Val Lys Glu Ile Gln Thr Ser Ala Lys Ser Arg Glu Trp
 210 215 220
 Asp Met Glu Ala Leu Arg Ser Thr Leu Gln Thr Met Glu Ser Asp Ile
 225 230 235 240
 Tyr Thr Glu Val Arg Glu Leu Val Ser Leu Lys Gln Glu Gln Gln Ala
 245 250 255
 Phe Lys Glu Ala Ala Asp Thr Glu Arg Leu Ala Leu Gln Ala Leu Thr
 260 265 270
 Glu Lys Leu Leu Arg Ser Glu Glu Ser Val Ser Arg Leu Pro Glu Glu
 275 280 285
 Ile Arg Arg Leu Glu Glu Glu Leu Arg Gln Leu Lys Ser Asp Ser His
 290 295 300
 Gly Pro Lys Glu Asp Gly Gly Phe Arg His Ser Glu Ala Phe Glu Ala
 305 310 315 320
 Leu Gln Gln Lys Ser Gln Gly Leu Asp Ser Arg Leu Gln His Val Glu
 325 330 335
 Asp Gly Val Leu Ser Met Gln Val Ala Ser Ala Arg Gln Thr Glu Ser
 340 345 350
 Leu Glu Ser Leu Leu Ser Lys Ser Gln Glu His Glu Gln Arg Leu Ala
 355 360 365
 Ala Leu Gln Gly Arg Leu Glu Gly Leu Gly Ser Ser Glu Ala Asp Gln
 370 375 380
 Asp Gly Leu Ala Ser Thr Val Arg Ser Leu Gly Glu Thr Gln Leu Val
 385 390 395 400
 Leu Tyr Gly Asp Val Glu Glu Leu Lys Arg Ser Val Gly Glu Leu Pro
 405 410 415
 Ser Thr Val Glu Ser Leu Gln Lys Val Gln Glu Gln Val Tyr Thr Leu
 420 425 430
 Leu Ser Gln Asp Gln Ala Gln Ala Ala Arg Leu Pro Pro Gln Asp Phe
 435 440 445
 Leu Asp Arg Leu Ser Ser Leu Asp Asn Leu Lys Ala Ser Val Ser Gln
 450 455 460

Val Glu Ala Asp Leu Lys Met Leu Arg Thr Ala Val Asp Ser Leu Val
 465 470 475 480
 Ala Tyr Ser Val Lys Ile Glu Thr Asn Glu Asn Asn Leu Glu Ser Ala
 485 490 495
 Lys Gly Leu Leu Asp Asp Leu Arg Asn Asp Leu Asp Arg Leu Phe Val
 500 505 510
 Lys Val Glu Lys Ile His Glu Lys Val
 515 520

<210> 3039

<211> 228

<212> PRT

<213> Homo sapiens

<400> 3039

Met Cys His Val Ile Val Thr Cys Arg Ser Met Leu Trp Thr Leu Leu
 1 5 10 15
 Ser Ile Val Val Ala Phe Ala Glu Leu Ile Ala Phe Met Ser Ala Asp
 20 25 30
 Trp Leu Thr Gly Lys Ala Arg Ser Arg Gly Gly Val Glu Pro Ala Gly
 35 40 45
 Pro Gly Gly Gly Ser Pro Glu Pro Tyr His Pro Thr Leu Gly Ile Tyr
 50 55 60
 Ala Arg Cys Ile Arg Asn Pro Gly Val Gln His Phe Gln Arg Asp Thr
 65 70 75 80
 Leu Cys Gly Pro Tyr Ala Glu Ser Phe Gly Glu Ile Ala Ser Gly Phe
 85 90 95
 Trp Gln Ala Thr Ala Ile Phe Leu Ala Val Gly Ile Phe Ile Leu Cys
 100 105 110
 Met Val Ala Leu Val Ser Val Phe Thr Met Cys Val Gln Ser Ile Met
 115 120 125
 Lys Lys Ser Ile Phe Asn Val Cys Gly Leu Leu Gln Gly Ile Ala Gly
 130 135 140
 Leu Phe Leu Ile Leu Gly Leu Ile Leu Tyr Pro Ala Gly Trp Gly Cys
 145 150 155 160

Gln Lys Ala Ile Asp Tyr Cys Gly His Tyr Ala Ser Ala Tyr Lys Pro
 165 170 175
 Gly Asp Cys Ser Leu Gly Trp Ala Phe Tyr Thr Ala Ile Gly Gly Thr
 180 185 190
 Val Leu Thr Phe Ile Cys Ala Val Phe Ser Ala Gln Ala Glu Ile Ala
 195 200 205
 Thr Ser Ser Asp Lys Val Gln Glu Glu Ile Glu Glu Gly Lys Asn Leu
 210 215 220
 Ile Cys Leu Leu
 225

<210> 3040

<211> 544

<212> PRT

<213> Homo sapiens

<400> 3040

Met Pro Pro Asn Leu Gly Asn Ala Gly Leu Leu Gly Arg Met Leu Asp
 1 5 10 15
 Glu Lys Thr Pro Pro Ser Pro Ser Gly Gln Pro Glu Glu Pro Gly Met
 20 25 30
 Val Arg Leu Val Cys Gly His His Asn Trp Ile Ala Val Ala Tyr Thr
 35 40 45
 Gln Phe Leu Val Cys Tyr Arg Leu Lys Glu Ala Ser Gly Trp Gln Leu
 50 55 60
 Val Phe Ser Ser Pro Arg Leu Asp Trp Pro Ile Glu Arg Leu Ala Leu
 65 70 75 80
 Thr Ala Arg Val His Gly Gly Ala Leu Gly Glu His Asp Lys Met Val
 85 90 95
 Ala Ala Ala Thr Gly Ser Glu Ile Leu Leu Trp Ala Leu Gln Ala Glu
 100 105 110
 Gly Gly Gly Ser Glu Ile Gly Val Phe His Leu Gly Val Pro Val Glu
 115 120 125
 Ala Leu Phe Phe Val Gly Asn Gln Leu Ile Ala Thr Ser His Thr Gly
 130 135 140

Arg Ile Gly Val Trp Asn Ala Val Thr Lys His Trp Gln Val Gln Glu
 145 150 155 160
 Val Gln Pro Ile Thr Ser Tyr Asp Ala Ala Gly Ser Phe Leu Leu Leu
 165 170 175
 Gly Cys Asn Asn Gly Ser Ile Tyr Tyr Val Asp Val Gln Lys Phe Pro
 180 185 190
 Leu Arg Met Lys Asp Asn Asp Leu Leu Val Ser Glu Leu Tyr Arg Asp
 195 200 205
 Pro Ala Glu Asp Gly Val Thr Ala Leu Ser Val Tyr Leu Thr Pro Lys
 210 215 220
 Thr Ser Asp Ser Gly Asn Trp Ile Glu Ile Ala Tyr Gly Thr Ser Ser
 225 230 235 240
 Gly Gly Val Arg Val Ile Val Gln His Pro Glu Thr Val Gly Ser Gly
 245 250 255
 Pro Gln Leu Phe Gln Thr Phe Thr Val His Arg Ser Pro Val Thr Lys
 260 265 270
 Ile Met Leu Ser Glu Lys His Leu Ile Ser Val Cys Ala Asp Asn Asn
 275 280 285
 His Val Arg Thr Trp Ser Val Thr Arg Phe Arg Gly Met Ile Ser Thr
 290 295 300
 Gln Pro Gly Ser Thr Pro Leu Ala Ser Phe Lys Ile Leu Ala Leu Glu
 305 310 315 320
 Ser Ala Asp Gly His Gly Gly Cys Ser Ala Gly Asn Asp Ile Gly Pro
 325 330 335
 Tyr Gly Glu Arg Asp Asp Gln Gln Val Phe Ile Gln Lys Val Val Pro
 340 345 350
 Ser Ala Ser Gln Leu Phe Val Arg Leu Ser Ser Thr Gly Gln Arg Val
 355 360 365
 Cys Ser Val Arg Ser Val Asp Gly Ser Pro Thr Thr Ala Phe Thr Val
 370 375 380
 Leu Glu Cys Glu Gly Ser Arg Arg Leu Gly Ser Arg Pro Arg Arg Tyr
 385 390 395 400
 Leu Leu Thr Gly Gln Ala Asn Gly Ser Leu Ala Met Trp Asp Leu Thr
 405 410 415
 Thr Ala Met Asp Gly Leu Gly Gln Ala Pro Ala Gly Gly Leu Thr Glu
 420 425 430

Gln Glu Leu Met Glu Gln Leu Glu His Cys Glu Leu Ala Pro Pro Ala
 435 440 445
 Pro Ser Ala Pro Ser Trp Gly Cys Leu Pro Ser Pro Ser Pro Arg Ile
 450 455 460
 Ser Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser Leu Ser Gly
 465 470 475 480
 His Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg Arg Arg Gly
 485 490 495
 Gly Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg Ser Gly Pro
 500 505 510
 Asp Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser Ser Gly Leu
 515 520 525
 Gly Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu Thr Ser Phe
 530 535 540

<210> 3041

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3041

Met Asp Phe Ser Ala Pro Glu Leu Gln Leu Lys Pro Thr Arg Ala Ala
 1 5 10 15
 Thr His Arg Thr Thr Ser Phe Pro Pro Arg Arg Met Gln Trp Gly Trp
 20 25 30
 Leu Phe Gly Ser Leu His Ser Cys His Trp Leu Gly Arg Gln Pro Leu
 35 40 45
 Leu Ser Leu Lys Ala Val Val Ser Phe Arg Val Phe Ser Trp Lys Ser
 50 55 60
 Arg Arg Asn Ser Ser Leu Ile Arg Arg Trp Gly Pro Gly Gly Gly Ser
 65 70 75 80
 Gly Ile Arg Gly Gln Ala Ala His Arg Ile Arg Ala Ser Leu Cys Pro
 85 90 95
 Pro Asp Ala Pro Trp Gly Glu Ser Ser Val
 100 105

<210> 3042

<211> 574

<212> PRT

<213> Homo sapiens

<400> 3042

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Met Val Gly Glu Arg His Ala Gly Asp Leu Met Val Pro Leu Gly Pro
 1             5             10             15
Arg Leu Gln Ala Tyr Pro Glu Glu Leu Ile Arg Gln Arg Pro Gly His
      20             25             30
Asp Gly His Pro Glu Tyr Leu Ile Arg Trp Ser Val Leu Lys Cys Gly
      35             40             45
Glu Val Gly Lys Val Gly Val Glu Glu Gly Lys Ala Glu His Ile Leu
      50             55             60
Met Trp Leu Ser Ala Pro Glu Val Tyr Ala Asn Cys Pro Gly Leu Leu
      65             70             75             80
Gly Glu Arg Ala Leu Ser Lys Gly Leu Gln His Glu Pro Ala Gly Val
      85             90             95
Ser Gly Ser Phe Pro Arg Asp Pro Gly Gly Leu Asp Glu Val Ala Met
      100            105            110
Gly Glu Met Glu Ala Asp Val Gln Ala Leu Val Arg Arg Ala Ala Arg
      115            120            125
Gln Leu Ala Glu Ser Gly Thr Pro Ser Leu Thr Ala Ala Val Leu His
      130            135            140
Thr Ile His Val Leu Ser Ala Tyr Ala Ser Ile Gly Pro Leu Thr Gly
      145            150            155            160
Val Phe Arg Glu Thr Gly Ala Leu Asp Leu Leu Met His Met Leu Cys
      165            170            175
Asn Pro Glu Pro Gln Ile Arg Arg Ser Ala Gly Lys Met Leu Gln Ala
      180            185            190
Leu Ala Ala His Asp Ala Gly Ser Arg Ala His Val Leu Leu Ser Leu
      195            200            205
Ser Gln Gln Asp Gly Ile Glu Gln His Met Asp Phe Asp Ser Arg Tyr
      210            215            220

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Thr Leu Leu Glu Leu Phe Ala Glu Thr Thr Ser Ser Glu Glu His Cys
 225 230 235 240
 Met Ala Phe Glu Gly Ile His Leu Pro Gln Ile Pro Gly Lys Leu Leu
 245 250 255
 Phe Ser Leu Val Lys Arg Tyr Leu Cys Val Thr Ser Leu Leu Asp Gln
 260 265 270
 Leu Asn Ser Ser Pro Glu Leu Gly Ala Gly Asp Gln Ser Ser Pro Cys
 275 280 285
 Ala Thr Arg Glu Lys Ser Arg Gly Gln Arg Glu Leu Glu Phe Ser Met
 290 295 300
 Ala Val Gly Asn Leu Ile Ser Glu Leu Val Arg Ser Met Gly Trp Ala
 305 310 315 320
 Arg Asn Leu Ser Glu Gln Gly Met Ser Pro Pro Arg Pro Thr Arg Ser
 325 330 335
 Ile Phe Gln Pro Tyr Ile Ser Gly Pro Ser Leu Leu Leu Pro Thr Ile
 340 345 350
 Val Thr Thr Pro Arg Arg Gln Gly Trp Val Phe Arg Gln Arg Ser Glu
 355 360 365
 Phe Ser Ser Arg Ser Gly Tyr Gly Glu Tyr Val Gln Gln Thr Leu Gln
 370 375 380
 Pro Gly Met Arg Val Arg Met Leu Asp Asp Tyr Glu Glu Ile Ser Ala
 385 390 395 400
 Gly Asp Glu Gly Glu Phe Arg Gln Ser Asn Asn Gly Ile Pro Pro Val
 405 410 415
 Gln Thr Leu Gly Glu Lys Ala Leu Gly Glu Ile Ser Val Ser Val Glu
 420 425 430
 Met Ala Glu Ser Leu Leu Gln Val Leu Ser Ser Arg Phe Glu Gly Ser
 435 440 445
 Thr Leu Asn Asp Leu Leu Asn Ser Gln Ile Tyr Thr Lys Tyr Gly Leu
 450 455 460
 Leu Ser Asn Glu Pro Ser Ser Ser Ser Thr Ser Arg Asn His Ser Cys
 465 470 475 480
 Thr Pro Asp Pro Glu Glu Glu Ser Lys Ser Glu Ala Ser Phe Ser Glu
 485 490 495
 Glu Glu Thr Glu Ser Leu Lys Ala Lys Ala Glu Ala Pro Lys Thr Glu
 500 505 510

Ala Glu Pro Thr Lys Thr Arg Thr Glu Thr Pro Met Ala Gln Ser Asp
515 520 525
Ser Gln Leu Phe Asn Gln Leu Leu Val Thr Glu Gly Met Thr Leu Pro
530 535 540
Thr Glu Met Lys Glu Ala Ala Ser Gly Glu Ser Gly Ser Gly Arg Lys
545 550 555 560
Gln Leu Glu Gln Val Leu Gly Ser Leu Ser Arg Arg Asn Gly
565 570

<210> 3043

<211> 177

<212> PRT

<213> Homo sapiens

<400> 3043

Met Val Arg Ala Arg Val Val Leu Pro Gly Arg Ser Cys Gly Arg Gly
1 5 10 15
Gly Gly Val Cys Arg Val Gly Arg Cys Val Cys Ser Asp Thr Leu Val
20 25 30
Leu Gly Ala Ala Gly His Ile Thr Gly Asp Met Pro Asn Gly Val Arg
35 40 45
Gln Arg Ser Arg Val Ser Thr Val Glu Arg Pro Arg Trp Gln Gly Leu
50 55 60
Pro Gly Val His Thr Ser Arg Cys Val Thr Arg Glu Gly Pro Met His
65 70 75 80
Gly Ala Ser Ser Ser Cys Ile Arg Gln Cys Arg Ile Ser Pro Thr Val
85 90 95
Cys Phe Leu Leu Arg Gln Arg Pro His Ala Cys Leu Leu Pro Pro Leu
100 105 110
Gln Val Lys Arg Ser Arg Ser Lys Gly Gly Leu Ala Gly Pro Asp Gly
115 120 125
Thr Lys Ser Val Phe Gly Gln Met Cys Ala Lys Met Ser Ser Phe Gly
130 135 140
Pro Asp Ser Leu Leu Leu Pro His Arg Val Trp Lys Val Lys Phe Val
145 150 155 160

Ala

 $\langle 211 \rangle$ 100

<213> Homo sapiens

<210> 3045

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3045

Met Gly Ile Ala Met Gly Pro Gly Ala Thr Arg Trp Thr Gln Gly Pro
1 5 10 15

His Ser Thr Thr Val Pro Cys Asp Ala Ala Leu Met Thr Ser Arg His
 20 25 30
 Gln Ser Trp Thr Pro Pro Gln Val Arg Ser Trp Ala Ser Tyr Gly Ser
 35 40 45
 Gly Pro Leu Ala His Asp Ile His Thr Val Trp Val Ser Ser Ser Pro
 50 55 60
 Pro His Pro Thr Asp Gln Val Gln Phe Glu Lys Cys Gly Lys Arg Val
 65 70 75 80
 Asp Arg Leu Asp Gln Arg Arg Ser Lys Leu Arg Val Ala Gly Gly His
 85 90 95
 Pro Gly Asn Ser Pro Trp Thr Val Ser Leu Gly Asn Arg
 100 105

<210> 3046

<211> 491

<212> PRT

<213> Homo sapiens

<400> 3046

Met Met Ser Glu His Asp Leu Ala Asp Val Val Gln Ile Ala Val Glu
 1 5 10 15
 Asp Leu Ser Pro Asp His Pro Val Val Leu Glu Asn His Val Val Thr
 20 25 30
 Asp Glu Asp Glu Pro Ala Leu Lys Arg Gln Arg Leu Glu Ile Asn Cys
 35 40 45
 Gln Asp Pro Ser Ile Lys Ser Phe Leu Tyr Ser Ile Asn Gln Thr Ile
 50 55 60
 Cys Leu Arg Leu Asp Ser Ile Glu Ala Lys Leu Gln Ala Leu Glu Ala
 65 70 75 80
 Thr Cys Lys Ser Leu Glu Glu Lys Leu Asp Leu Val Thr Asn Lys Gln
 85 90 95
 His Ser Pro Ile Gln Val Pro Met Val Ala Gly Ser Pro Leu Gly Ala
 100 105 110
 Thr Gln Thr Cys Asn Lys Val Arg Cys Ala Val Pro Gly Arg Arg Gln
 115 120 125

Asn Thr Ile Val Val Lys Val Pro Gly Gln Glu Asp Ser His His Glu
 130 135 140
 Asp Gly Glu Ser Gly Ser Glu Ala Ser Asp Ser Val Ser Ser Cys Gly
 145 150 155 160
 Gln Ala Gly Ser Gln Ser Ile Gly Ser Asn Val Thr Leu Ile Thr Leu
 165 170 175
 Asn Ser Glu Glu Asp Tyr Pro Asn Gly Thr Trp Leu Gly Asp Glu Asn
 180 185 190
 Asn Pro Glu Met Arg Val Arg Cys Ala Ile Ile Pro Ser Asp Met Leu
 195 200 205
 His Ile Ser Thr Asn Cys Arg Thr Ala Glu Lys Met Ala Leu Thr Leu
 210 215 220
 Leu Asp Tyr Leu Phe His Arg Glu Val Gln Ala Val Ser Asn Leu Ser
 225 230 235 240
 Gly Gln Gly Lys His Gly Lys Lys Gln Leu Asp Pro Leu Thr Ile Tyr
 245 250 255
 Gly Ile Arg Cys His Leu Phe Tyr Lys Phe Gly Ile Thr Glu Ser Asp
 260 265 270
 Trp Tyr Arg Ile Lys Gln Ser Ile Asp Ser Lys Cys Arg Thr Ala Trp
 275 280 285
 Arg Arg Lys Gln Arg Gly Gln Ser Leu Ala Val Lys Ser Phe Ser Arg
 290 295 300
 Arg Thr Pro Asn Ser Ser Ser Tyr Cys Pro Ser Glu Pro Met Met Ser
 305 310 315 320
 Thr Pro Pro Pro Ala Ser Glu Leu Pro Gln Pro Gln Pro Gln Pro Gln
 325 330 335
 Ala Leu His Tyr Ala Leu Ala Asn Ala Gln Gln Val Gln Ile His Gln
 340 345 350
 Ile Gly Glu Asp Gly Gln Val Gln Val Ile Pro Gln Gly His Leu His
 355 360 365
 Ile Ala Gln Val Pro Gln Gly Glu Gln Val Gln Ile Thr Gln Asp Ser
 370 375 380
 Glu Gly Asn Leu Gln Ile His His Val Gly Gln Asp Gly Gln Leu Leu
 385 390 395 400
 Glu Ala Thr Arg Ile Pro Cys Leu Leu Ala Pro Ser Val Phe Lys Ala

405 410 415
 Ser Ser Gly Gln Val Leu Gln Gly Ala Gln Leu Ile Ala Val Ala Ser
 420 425 430
 Ser Asp Pro Ala Ala Ala Gly Val Asp Gly Ser Pro Leu Gln Gly Ser
 435 440 445
 Asp Ile Gln Val Gln Tyr Val Gln Leu Ala Pro Val Ser Asp His Thr
 450 455 460
 Ala Gly Ala Gln Thr Ala Glu Ala Leu Gln Pro Thr Leu Gln Pro Glu
 465 470 475 480
 Met Gln Leu Glu His Gly Ala Ile Gln Ile Gln
 485 490

<210> 3047

<211> 149

<212> PRT

<213> Homo sapiens

<400> 3047

Met Ala Met Ala His Ala Gly Leu Cys Gly Trp Arg Gly Glu Val Ser
 1 5 10 15
 Leu Asp Ser Arg Glu Lys Pro Trp Gly Asn Pro Lys Gly Leu Arg Lys
 20 25 30
 Thr Gly Ile Gly Val Arg His Glu Gly Arg Glu Ser Leu Gly Lys Thr
 35 40 45
 Gly Arg Ala Val Arg Ser Pro Glu Gly Ser Cys Gly Cys Ser Ala Ala
 50 55 60
 Gly Arg Pro Arg Leu Ala Pro Pro Arg Arg Trp Ala Ser Pro Pro Gly
 65 70 75 80
 Ala His Pro Arg Ala Ala Ala Phe Leu His Ala Ala Gln Gly Ser Ser
 85 90 95
 Met Pro Gly Ala Gly Met Arg Gln Arg Phe Cys Ser Leu Leu Ala Ile
 100 105 110
 Leu Ala Ser Pro Asn Glu Arg Ala Leu Lys Met Lys Leu Leu Ile Asn
 115 120 125
 Ser Arg Val Arg Asn Ser Gly Leu Cys Gly Lys Gly Arg Ala Leu His

130
Phe Val Ser Asn Arg
145

135

140

<210> 3048

<211> 232

<212> PRT

<213> Homo sapiens

<400> 3048

Met Gly Leu Met Leu Thr Ile Pro Leu Ser Asn Arg Ser Phe Met Pro
1 5 10 15
Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val Asp Phe Asp
20 25 30
Asp Ile His Gly Lys Arg Thr Glu Lys Asp Leu Asn Glu Leu Gln Ala
35 40 45
Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu Glu Glu Leu
50 55 60
Val Ser Leu Lys Asp Arg Ile Glu Arg Arg Arg Ala Glu Arg Ala Glu
65 70 75 80
Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln Asn Arg Leu
85 90 95
Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg Arg Lys Ala
100 105 110
Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met Met His Phe
115 120 125
Gly Gly Tyr Ile Gln Lys Gln Ala Gln Thr Glu Arg Lys Ser Gly Lys
130 135 140
Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu Arg Arg
145 150 155 160
Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg Glu Lys
165 170 175
Ala Lys Glu Leu Trp Gln Ser Ile Tyr Asn Leu Glu Ala Glu Lys Phe
180 185 190
Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu

195	200	205
Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg Gly Lys		
210	215	220
Ala Lys Val Ile Gly Arg Trp Lys		
225	230	

<210> 3049

<211> 496

<212> PRT

<213> Homo sapiens

<400> 3049

Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly		
1	5	10
Val Gln Ser Gln Glu Gln Leu Leu Gln Ser Ala Thr Glu Val Lys Gln		
20	25	30
Pro Gly Asp Ser Val Lys Val Ser Cys Arg Ala Ser Glu Asp Thr Phe		
35	40	45
Thr Ser Ser Tyr Phe His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu		
50	55	60
Glu Trp Met Gly Ile Ile Asn Pro Gly Gly Gly Arg Thr Asn Tyr Ala		
65	70	75
Gln Lys Phe Gln Asp Arg Val Thr Met Thr Trp Asp Met Ser Ser Gly		
85	90	95
Thr Val Tyr Met Glu Leu Asp Ile Leu Thr Ser Gln Asp Thr Ala Val		
100	105	110
Tyr Phe Cys Ala Lys Ser Arg Gly Gly Tyr Tyr Asp Ala Glu Asp Asn		
115	120	125
Trp Phe Asp Pro Trp Gly Leu Gly Thr Gln Val Ile Val Ser Ser Ala		
130	135	140
Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln		
145	150	155
Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro		
165	170	175
Gln Glu Ser Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr		

	180		185		190
Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr					
195		200		205	
Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys					
210		215		220	
Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val					
225		230		235	240
Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser					
	245		250		255
Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu					
	260		265		270
His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu					
	275		280		285
Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr					
	290		295		300
Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu Arg					
305		310		315	320
Asp Leu Cys Gly Arg Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala					
	325		330		335
Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro					
	340		345		350
Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr					
	355		360		365
Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala					
	370		375		380
Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro					
385		390		395	400
Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg					
	405		410		415
Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr					
	420		425		430
Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp					
	435		440		445
Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro					
	450		455		460
Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr					

465 470 475 480
 His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr
 485 490 495

<210> 3050

<211> 546

<212> PRT

<213> Homo sapiens

<400> 3050

Met Asp Leu Arg Ala Cys Lys Glu Leu Arg Pro Phe Ser Asn Pro Glu
 1 5 10 15
 Leu Gly Leu Arg Asp Ala Leu Gln Cys Leu Asn Ser Ser Asp Trp Gln
 20 25 30
 Met Lys Glu Lys Gly Leu Val Ser Ile Gln Arg Leu Ala Ala Cys His
 35 40 45
 Ser Glu Val Leu Thr Gly Lys Leu His Asp Val Cys Leu Val Val Thr
 50 55 60
 Gly Glu Val Thr Asn Leu Arg Ser Lys Val Ser His Leu Ala Ile Ser
 65 70 75 80
 Thr Leu Gly Asp Leu Phe Gln Ala Leu Lys Lys Asn Met Asp Gln Glu
 85 90 95
 Ala Glu Glu Ile Ala Arg Cys Leu Leu Gln Lys Met Ala Asp Thr Asn
 100 105 110
 Glu Phe Ile Gln Arg Ala Ala Gly Gln Ser Leu Arg Ala Met Val Glu
 115 120 125
 Asn Val Thr Leu Ala Arg Ser Leu Val Val Leu Thr Ser Ala Gly Val
 130 135 140
 Tyr His Arg Asn Pro Leu Ile Arg Lys Tyr Ala Ala Glu His Leu Ser
 145 150 155 160
 Ala Val Leu Glu Gln Ile Gly Ala Glu Lys Leu Leu Ser Gly Thr Arg
 165 170 175
 Asp Ser Thr Asp Met Leu Val His Asn Leu Val Arg Leu Ala Gln Asp
 180 185 190
 Ser Asn Gln Asp Thr Arg Phe Tyr Gly Arg Lys Met Val Asn Ile Leu

195	200	205	
Met Ala Asn Thr Lys Phe Asp	Ala Phe Leu Lys Gln Ser	Leu Pro Ser	
210	215	220	
Tyr Asp Leu Gln Lys Val Met	Ala Ala Ile Lys Gln Gln Gly	Ile Glu	
225	230	235	240
Asp Asn Asp Glu Leu Pro Ser	Ala Lys Gly Cys Lys Val	Leu Arg Ser	
	245	250	255
Leu Val Val Cys Glu Asn Gly	Leu Pro Ile Lys Glu Gly	Leu Ser Cys	
	260	265	270
Asn Gly Pro Arg Leu Val Gly	Leu Arg Ser Thr Leu Gln Gly	Arg Gly	
	275	280	285
Glu Met Val Glu Gln Leu Arg	Glu Leu Thr Arg Leu Leu Glu	Ala Lys	
	290	295	300
Asp Phe Arg Ser Arg Met Glu	Gly Val Gly Gln Leu Leu Glu	Leu Cys	
305	310	315	320
Lys Ala Lys Thr Glu Leu Val	Thr Ala His Leu Val Gln Val	Phe Asp	
	325	330	335
Ala Phe Thr Pro Arg Leu Gln	Asp Ser Asn Lys Lys Val	Asn Gln Trp	
	340	345	350
Ala Leu Glu Ser Phe Ala Lys	Met Ile Pro Leu Leu Arg Glu	Ser Leu	
	355	360	365
His Pro Met Leu Leu Ser Ile	Ile Ile Thr Val Ala Asp	Asn Leu Asn	
	370	375	380
Ser Lys Asn Ser Gly Ile Tyr	Ala Ala Ala Val Ala Val	Leu Asp Ala	
385	390	395	400
Met Val Glu Ser Leu Asp	Asn Leu Cys Leu Leu Pro	Ala Leu Ala Gly	
	405	410	415
Arg Val Arg Phe Leu Ser Gly	Arg Ala Val Leu Asp Val	Thr Asp Arg	
	420	425	430
Leu Ala Val Leu Val Ala Ser	Val Tyr Pro Arg Lys Pro	Gln Ala Val	
	435	440	445
Glu Arg His Val Leu Pro Ile	Leu Trp His Phe Leu Asn	Thr Ala Thr	
	450	455	460
Arg Asn Gly Ala Leu Pro	Val Pro Ser Gly Asn Ile	Arg Gly Val Val	
465	470	475	480

Cys Arg Leu Ser Arg Ser Leu Gln Glu His Met Gly Ser Arg Leu Leu
 485 490 495
 Asp Phe Ala Ala Ser Gln Pro Lys His Val Leu Lys Thr Leu Gln Glu
 500 505 510
 Leu Leu Asp Ser Glu Ser Leu Gly Gly Ser Arg Lys Ala Thr Asp Arg
 515 520 525
 Gly Val Ala Pro Asp Ser Lys Thr Thr Gly Ser Ser Tyr Pro Phe Gln
 530 535 540
 Leu Asp
 545

<210> 3051

<211> 569

<212> PRT

<213> Homo sapiens

<400> 3051

Met Ser Gln Val Ile Ala Ser Gly Ala Asp Leu Ile Ala Gln Thr Leu
 1 5 10 15
 Lys Asn Gln Gly Val Gln Val Ile Phe Gly Ile Val Gly Ile Pro Val
 20 25 30
 Val Glu Val Ala Glu Ala Cys Val Ala Ala Gly Ile Arg Phe Ile Gly
 35 40 45
 Phe Arg Asn Glu Gln Ser Ala Ala Tyr Ala Ala Ser Ile Tyr Gly Tyr
 50 55 60
 Leu Ser Gly Arg Pro Gly Val Cys Leu Ser Val Gly Gly Pro Gly Val
 65 70 75 80
 Val His Ala Leu Ala Gly Leu Leu Asn Ser Lys Ile Asn Cys Trp Pro
 85 90 95
 Leu Ile Leu Leu Ser Gly Ser Cys Glu Thr Asp Gln Thr Asp Met Gly
 100 105 110
 Ala Phe Gln Glu Leu Asp Gln Val Glu Ala Ala Arg Gln Tyr Cys Lys
 115 120 125
 Tyr Ser Ala Arg Pro Ala Ser Leu Glu Gln Leu Pro Phe Val Ile Glu
 130 135 140

Lys Ala Phe Arg Thr Ala Leu Tyr Gly Arg Pro Gly Ala Ala Tyr Val
 145 150 155 160
 Asp Leu Pro Ala Asp Tyr Ile Gln Tyr Pro Ile Thr Asn Lys Lys Val
 165 170 175
 Phe Asp Ala Val Gln Val Ala Arg Val Pro Asn Ala Pro Lys Ser Met
 180 185 190
 Ala Asp Gln Thr Asn Val His Gln Ala Val Ala Leu Leu Lys His Ala
 195 200 205
 Lys Ser Pro Leu Ile Val Ile Gly Lys Gly Ala Ala Tyr Ala Arg Ala
 210 215 220
 Glu Asn Glu Ile Arg Ala Leu Val Glu Lys Thr Gln Ala Pro Phe Leu
 225 230 235 240
 Pro Thr Pro Met Gly Lys Gly Val Ile Ser Asp Ser His Pro Leu Cys
 245 250 255
 Val Ser Ala Ala Arg Ser Lys Ala Leu Lys Asp Ala Asp Val Val Leu
 260 265 270
 Leu Ile Gly Ala Arg Leu Asn Trp Ile Leu His Tyr Gly His Ser Pro
 275 280 285
 Arg Trp Ser Asn Lys Val Arg Phe Ile Gln Ile Asp Ile Ala Pro Glu
 290 295 300
 Glu Leu Gly Asn Asn Arg Gln Asp Thr Leu Pro Leu Leu Gly Asp Ile
 305 310 315 320
 Gln Leu Val Val Ser Gln Ile Thr Gln Ala Leu Thr Gly Lys Leu Ser
 325 330 335
 Asn Ile Asn Pro Asp Tyr Val Ser Gly Leu Val Asn Lys Val Lys Gln
 340 345 350
 Asn Val Glu Lys Thr Lys Thr Ala Gly Ser Lys Gly Ser Asp Ser Ala
 355 360 365
 Ile Leu Asn Tyr Ser Thr Ala Phe Thr Val Ile Lys Ser Leu Leu Pro
 370 375 380
 Glu Asn Asp Ile Val Tyr Val Ser Glu Gly Ala Asn Thr Met Asp Ile
 385 390 395 400
 Gly Arg Ser Tyr Phe Asp Val His Glu Pro Arg His Arg Leu Asp Ala
 405 410 415
 Gly Thr Gly Ala Thr Met Gly Val Gly Met Gly Tyr Ala Ile Gly Ala
 420 425 430

Gln Ser Tyr Tyr Gly Asp Ala Lys Arg Val Val Ser Ile Val Gly Asp
 435 440 445
 Ser Ala Phe Gly Phe Ser Ala Met Glu Leu Glu Thr Ala Ile Arg Ser
 450 455 460
 Arg Leu Pro Leu Leu Ile Ile Val Ile Asn Asn Asn Gly Ile Tyr His
 465 470 475 480
 Gly Leu Glu Asp Glu Glu Tyr His Ala Ala Leu Lys Asp Gly Thr Leu
 485 490 495
 Pro Thr Thr Ser Leu Ser Val Glu Thr Arg Tyr Asp Leu Ile Ser Glu
 500 505 510
 Ala Cys Gly Gly Lys Gly Trp Phe Val Lys Asn Arg Val Glu Leu Ala
 515 520 525
 Lys Ala Val Lys Glu Ala Leu Ala Ala Lys Asp Gln Thr Cys Val Val
 530 535 540
 Asn Val Met Ile Ala Pro Gly Gly Arg Thr Lys Leu Asp Phe Gly Trp
 545 550 555 560
 Met Gln Lys Thr Gln Lys Ala Arg Leu
 565

<210> 3052

<211> 307

<212> PRT

<213> Homo sapiens

<400> 3052

Met Pro Lys Val Tyr Ser Arg Lys Asp Pro Leu Leu Phe Cys Arg Arg
 1 5 10 15
 Phe Val Gly Gly Ile Leu Ile Ala Arg Lys Ile Phe Trp Pro Leu Glu
 20 25 30
 Asn Val Leu Leu Lys Ser Gly Met Leu Ala Glu Lys Val Met Lys Lys
 35 40 45
 Glu Asn His Ile Leu Ser Val Asp Asp Leu Glu Gln Ala Leu Glu Leu
 50 55 60
 Thr Asp Lys Asp Asp Ile Lys Asp Glu Gln Ser Met Leu Lys Gly Ile
 65 70 75 80

Ile Arg Phe Gly Asp Glu Thr Ala Lys Glu Val Met Thr Ser Arg Gln
 85 90 95
 Asn Ile Val Asp Leu Asp Ile His Ser Thr Tyr Pro Glu Val Leu Lys
 100 105 110
 Cys Ile Ala Glu Asn Asn Tyr Ser Arg Ile Pro Val Tyr Gln Asp Asn
 115 120 125
 Thr Asp Asn Ile Arg Gly Ile Leu Tyr Ile Lys Asp Leu Leu Pro His
 130 135 140
 Leu Glu Lys Pro Val Ser Phe Arg Trp Gln Ser Leu Ile Arg Pro Pro
 145 150 155 160
 Tyr Phe Val Pro Glu Thr Lys Lys Ile Asp Asp Leu Leu Arg Glu Phe
 165 170 175
 Gln Glu Asn Lys Val His Ile Ala Ile Val Val Asp Glu Phe Gly Gly
 180 185 190
 Thr Ser Gly Ile Val Thr Leu Glu Asp Ile Leu Glu Glu Ile Val Gly
 195 200 205
 Glu Ile Asn Asp Glu Tyr Asp Glu Glu Glu Lys Phe Tyr Ser Lys Leu
 210 215 220
 Asn Tyr Asn Thr Phe Ile Phe Glu Gly Lys Thr Leu Leu Thr Asp Phe
 225 230 235 240
 Cys Lys Ile Leu Asn Val Asp Asp Glu Glu Phe Glu Glu Val Glu Gly
 245 250 255
 Asp Ala Asp Thr Leu Ala Gly Leu Leu Leu Glu Ile Lys Gly Asp Phe
 260 265 270
 Pro Ser Ile His Glu Lys Ile Glu Tyr Lys Asn Tyr Ser Phe Glu Val
 275 280 285
 Leu Gly Val Glu Glu Arg Arg Ile Ser Arg Ile Lys Val Val Val His
 290 295 300
 Pro Gly Lys
 305

<210> 3053

<211> 422

<212> PRT

<213> Homo sapiens

<400> 3053

Met Ala Ser Lys Phe Thr Asp Gly Asp Leu Asn Asn Asp Gly Pro His
 1 5 10 15
 Asp Glu Gly Leu Arg Ser Ser Gln Gln Asn Pro Lys Val Gln Lys Tyr
 20 25 30
 Ile Ser Phe Ser Leu Pro Leu Ser Glu Ala Thr Ala His Ile Tyr Pro
 35 40 45
 Gly Asp Ser Ala Val Ala Asn Lys Gln Pro Ser Pro Gln Leu Ser Ser
 50 55 60
 Glu Asp Ser Asp Ser Asp Tyr Glu Leu Cys Pro Glu Ile Thr Leu Thr
 65 70 75 80
 Tyr Thr Glu Glu Phe Ser Asp Asp Asp Leu Glu Tyr Leu Glu Cys Ser
 85 90 95
 Asp Val Met Thr Asp Tyr Ser Asn Ala Val Trp Gln Arg Asn Leu Leu
 100 105 110
 Gly Thr Glu His Val Phe Leu Leu Glu Ser Asp Asp Glu Glu Met Glu
 115 120 125
 Phe Gly Glu His Cys Leu Gly Gly Cys Glu His Phe Leu Ser Gly Met
 130 135 140
 Gly Cys Gly Ser Arg Val Ser Gly Asp Ala Gly Pro Met Val Ala Thr
 145 150 155 160
 Ala Gly Phe Cys Gly His His Ser Gln Pro Gln Glu Val Gly Val Arg
 165 170 175
 Ser Ser Arg Val Ser Lys His Gly Pro Ser Ser Pro Gln Thr Gly Met
 180 185 190
 Thr Leu Ile Leu Gly Pro His Gln Asp Gly Thr Ser Ser Val Thr Glu
 195 200 205
 Gln Gly Arg Tyr Lys Leu Pro Thr Ala Pro Glu Ala Ala Glu Asn Asp
 210 215 220
 Tyr Pro Gly Ile Gln Gly Glu Thr Arg Asp Ser His Gln Ala Arg Glu
 225 230 235 240
 Glu Phe Ala Ser Asp Asn Leu Leu Asn Met Asp Glu Ser Val Arg Glu
 245 250 255
 Thr Glu Met Lys Leu Leu Ser Gly Glu Ser Glu Asn Ser Gly Met Ser
 260 265 270

Gln	Cys	Trp	Glu	Thr	Ala	Ala	Asp	Lys	Arg	Val	Gly	Gly	Lys	Asp	Leu
275						280						285			
Trp	Ser	Lys	Arg	Gly	Ser	Arg	Lys	Ser	Ala	Arg	Val	Arg	Gln	Pro	Gly
290						295						300			
Met	Lys	Gly	Asn	Pro	Lys	Lys	Pro	Asn	Ala	Asn	Leu	Arg	Glu	Ser	Thr
305						310						315			
Thr	Glu	Gly	Thr	Leu	His	Leu	Cys	Ser	Ala	Lys	Glu	Ser	Ala	Glu	Pro
			325						330						
Pro	Leu	Thr	Gln	Ser	Asp	Lys	Arg	Glu	Thr	Ser	His	Thr	Thr	Ala	Ala
			340						345						
Ala	Thr	Gly	Arg	Ser	Ser	His	Ala	Asp	Ala	Arg	Glu	Cys	Ala	Ile	Ser
355						360						365			
Thr	Gln	Ala	Glu	Gln	Glu	Ala	Lys	Thr	Leu	Gln	Thr	Ser	Thr	Asp	Ser
370						375						380			
Val	Ser	Lys	Glu	Gly	Asn	Thr	Asn	Cys	Lys	Gly	Glu	Gly	Met	Gln	Val
385						390						395			
Asn	Thr	Leu	Phe	Glu	Thr	Ser	Gln	Val	Pro	Asp	Trp	Ser	Asp	Pro	Pro
			405						410						
Gln	Val	Arg	Leu	Phe	Phe										
			420												

<210> 3054

<211> 184

<212> PRT

〈213〉 Homo sapiens

<400> 3054

Met	Ala	Ala	Phe	Tyr	Leu	Val	Ala	Arg	Glu	Glu	Ile	Ala	Leu	Leu	Leu
1				5					10					15	
Gly	Ser	Pro	Leu	Ser	Arg	Pro	Ala	Val	Ser	Thr	Phe	Cys	Phe	Leu	Phe
			20						25				30		
Phe	Leu	Glu	Thr	Gln	Phe	Arg	Ser	Cys	Cys	Pro	Asp	Trp	Ser	Ala	Met
		35					40				45				
Ser	Arg	Tyr	Gln	Leu	Thr	Ser	Thr	Ser	Ala	Ser	Trp	Val	Gln	Ala	Ile
	50					55					60				

Leu Leu Pro Arg Pro Pro Leu Val Ala Gly Ile Ala Ala Ala His His
 65 70 75 80
 Gln Ala Arg Leu Ile Phe Val Phe Leu Val Gln Thr Gly Phe Cys Arg
 85 90 95
 Val Asp Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala
 100 105 110
 Ser Ala Ser Gln Ser Ala Gly Ile Ala Gly Val Ser His Cys Ala Gln
 115 120 125
 Pro His Phe Ser Leu Ser Ser Gln Ser Leu Gly His Lys Ile Pro His
 130 135 140
 His Ser Pro Ala Lys Lys Met Pro Thr Phe Leu Asp Leu Ile Val Ser
 145 150 155 160
 Leu Lys Gln Asn Lys Thr Lys Phe Asn Ile Tyr Thr Pro Arg Thr Leu
 165 170 175
 Val Ser Glu Ile Leu Gly Leu Ile
 180

<210> 3055

<211> 508

<212> PRT

<213> Homo sapiens

<400> 3055

Met Leu Leu Ser Gln Gly Leu Gly Val Leu Arg Val Ala Trp Asp Ser
 1 5 10 15
 Arg Ala Cys Ser Pro Ala Leu Arg Ala Leu Leu Arg Lys Leu Gly Gly
 20 25 30
 Leu Phe Leu Pro Pro Glu Ala Ser Leu Ser Leu Asp Ser Ser Glu Gly
 35 40 45
 Leu Leu Ala Arg Ala Val Val Gln Ala Ala Ser Ala Pro Leu Gly Leu
 50 55 60
 Trp Thr Gly Ala Leu Ala Val Leu Arg Ser Leu Trp Ser Arg Trp Gly
 65 70 75 80
 Cys Ser His Arg Ile Cys Ser Arg Val His Leu Ala Gln Pro Phe Ser
 85 90 95

Leu Gln Glu Tyr Ile Val Ser Ala Arg Ser Cys Trp Gly Gly Arg Gln
 100 105 110
 Thr Leu Glu Gln Leu Leu Gln Pro Ile Val Leu Gly Gln Cys Thr Ala
 115 120 125
 Val Pro Asp Thr Glu Lys Glu Gln Glu Trp Thr Pro Ile Thr Gly Pro
 130 135 140
 Leu Leu Ala Leu Lys Glu Glu Asp Gln Leu Leu Val Arg Arg Leu Ser
 145 150 155 160
 Cys His Val Leu Ser Ala Ser Val Gly Ser Ser Ala Val Met Ser Thr
 165 170 175
 Ala Ile Met Ala Thr Leu Leu Leu Phe Lys His Gln Lys Leu Leu Gly
 180 185 190
 Glu Phe Ser Trp Leu Thr Glu Glu Ile Leu Leu Arg Gly Phe Asp Val
 195 200 205
 Gly Phe Ser Gly Gln Leu Arg Ser Leu Leu Gln His Ser Leu Ser Leu
 210 215 220
 Leu Arg Ala His Val Ala Leu Leu Arg Ile Arg Gln Gly Asp Leu Leu
 225 230 235 240
 Val Val Pro Gln Pro Gly Pro Gly Leu Thr His Leu Ala Gln Leu Ser
 245 250 255
 Ala Glu Leu Leu Pro Val Phe Leu Ser Glu Ala Val Gly Ala Cys Ala
 260 265 270
 Val Arg Gly Leu Leu Ala Gly Arg Val Pro Pro Gln Gly Pro Trp Glu
 275 280 285
 Leu Gln Gly Ile Leu Leu Leu Ser Gln Asn Glu Leu Tyr Arg Gln Ile
 290 295 300
 Leu Leu Leu Met His Leu Leu Pro Gln Asp Leu Leu Leu Lys Pro
 305 310 315 320
 Cys Gln Ser Ser Tyr Cys Tyr Cys Gln Glu Val Leu Asp Arg Leu Ile
 325 330 335
 Gln Cys Gly Leu Leu Val Ala Glu Glu Thr Pro Gly Ser Arg Pro Ala
 340 345 350
 Cys Asp Thr Gly Arg Gln Arg Leu Ser Arg Lys Leu Leu Trp Lys Pro
 355 360 365
 Ser Gly Asp Phe Thr Asp Ser Asp Ser Asp Asp Phe Gly Glu Ala Asp
 370 375 380

Gly Arg Tyr Phe Arg Leu Ser Gln Gln Ser His Cys Pro Asp Phe Phe
 385 390 395 400
 Leu Leu Leu Cys Arg Leu Leu Ser Pro Leu Leu Lys Ala Phe Ala Gln
 405 410 415
 Ala Ala Ala Phe Leu Arg Gln Gly Gln Leu Pro Asp Thr Glu Leu Gly
 420 425 430
 Tyr Thr Glu Gln Leu Phe Gln Phe Leu Gln Ala Thr Ala Gln Glu Glu
 435 440 445
 Gly Ile Phe Glu Cys Ala Asp Pro Lys Leu Ala Ile Ser Ala Val Trp
 450 455 460
 Thr Phe Arg Asp Leu Gly Val Leu Gln Gln Thr Pro Ser Pro Ala Gly
 465 470 475 480
 Pro Arg Leu His Leu Ser Pro Thr Phe Ala Ser Leu Asp Asn Gln Glu
 485 490 495
 Lys Leu Glu Gln Phe Ile Arg Gln Phe Ile Cys Ser
 500 505

<210> 3056

<211> 716

<212> PRT

<213> Homo sapiens

<400> 3056

Met Glu Thr Thr Gly Asp Gln Gly Ile Glu Gly Met Ala Tyr Met Asp
 1 5 10 15
 Glu Asn Arg Asn Ile Thr Phe Thr Cys Pro Arg Thr Pro Ser Glu Leu
 20 25 30
 Ile Asn Lys Ser Ser Pro Leu Glu Val Leu Gly Ser Ala Ala Cys Glu
 35 40 45
 Lys Leu Pro Thr Pro Thr Pro Gln Val Val Lys Glu Gly Asp Ser Phe
 50 55 60
 Pro Asp Thr Leu Ala Lys Asn Gly Gln Glu Ile Ala Pro Ala Gln Ile
 65 70 75 80
 Ser Lys Ser Leu Met Val Asp Asn Tyr Thr Lys Asp Gly Val Pro Gly
 85 90 95

Gln Glu Arg Pro Lys Gly Pro Ser Ala Val Val Pro Ser Thr Ser Thr
 100 105 110
 Gly Gly Val Ala Leu Pro Ile Thr Thr Ala Ile Glu Thr Val Asn Ile
 115 120 125
 His Gly Asp His Ser Leu Lys Asn Lys Ala Glu Leu Ala Asp Ser Met
 130 135 140
 Lys Asn Glu Ala Gly Ile Asp Glu Gly His Val Ile Gly Glu Ser Glu
 145 150 155 160
 Ser Val His Ser Gly Ala Ser Lys His Ser Val Glu Lys Val Thr Glu
 165 170 175
 Leu Ala Lys Gly His Leu Leu Pro Gly Val Pro Val Glu Asp Gln Ser
 180 185 190
 Leu Pro Gly Glu Ala Arg Ala Leu Glu Gly Tyr Ala Asp Arg Gly Asn
 195 200 205
 Phe Pro Ala His Pro Val Asn Glu Glu Lys Glu Thr Lys Glu Gly Ser
 210 215 220
 Val Ala Val Gln Ile Pro Asp Leu Leu Glu Asp Lys Ala Gln Lys Leu
 225 230 235 240
 Ser Phe Cys Glu Asp Gln Asn Ala Gln Asp Arg Asn Ser Lys Gly Ser
 245 250 255
 Asp Ser Leu Asn Lys Lys Val Asp Leu Thr Leu Leu Ser Pro Lys Ser
 260 265 270
 Glu Asn Asp Lys Leu Lys Glu Ile Ser Leu Ala Cys Lys Ile Thr Glu
 275 280 285
 Leu Glu Ser Val Ser Leu Pro Thr Pro Glu Ile Gln Ser Asp Phe Leu
 290 295 300
 His Ser Lys Val Glu Ala Pro Pro Ser Glu Val Ala Asp Thr Leu Val
 305 310 315 320
 Ile Met Thr Ala Ser Lys Gly Val Arg Leu Pro Glu Pro Lys Asp Lys
 325 330 335
 Ile Leu Glu Thr Pro Gln Lys Met Thr Glu Lys Ser Glu Ser Lys Thr
 340 345 350
 Pro Gly Glu Gly Lys Lys Glu Asp Lys Ser Arg Met Ala Glu Pro Met
 355 360 365
 Lys Gly Tyr Met Arg Pro Thr Lys Ser Arg Gly Leu Thr Pro Leu Leu
 370 375 380

Pro Lys Ser Thr Ile Gln Glu Gln Glu Arg His Lys Gln Leu Lys Ser
 385 390 395 400
 Ala Gly Ile Ala Arg Pro Glu Glu Gly Arg Pro Val Val Ser Gly Thr
 405 410 415
 Gly Asn Asp Ile Thr Thr Pro Pro Asn Lys Glu Leu Pro Pro Ser Pro
 420 425 430
 Glu Lys Lys Thr Lys Pro Leu Ala Thr Thr Gln Pro Ala Lys Thr Ser
 435 440 445
 Thr Ser Lys Ala Lys Thr Gln Pro Thr Ser Leu Pro Lys Gln Pro Ala
 450 455 460
 Pro Thr Thr Ile Gly Gly Leu Asn Lys Lys Pro Met Ser Leu Ala Ser
 465 470 475 480
 Gly Leu Val Pro Ala Ala Pro Pro Lys Arg Pro Ala Val Ala Ser Ala
 485 490 495
 Arg Pro Ser Ile Leu Pro Ser Lys Asp Val Lys Pro Lys Pro Ile Ala
 500 505 510
 Asp Ala Lys Ala Pro Glu Lys Arg Ala Ser Pro Ser Lys Pro Ala Ser
 515 520 525
 Ala Pro Ala Ser Arg Ser Gly Ser Lys Ser Thr Gln Thr Val Ala Lys
 530 535 540
 Thr Thr Thr Ala Ala Ala Val Ala Ser Thr Gly Pro Ser Ser Arg Ser
 545 550 555 560
 Pro Ser Thr Leu Leu Pro Lys Lys Pro Thr Ala Ile Lys Thr Glu Gly
 565 570 575
 Lys Pro Ala Glu Val Lys Lys Met Thr Ala Lys Ser Val Pro Ala Asp
 580 585 590
 Leu Ser Arg Pro Lys Ser Thr Ser Thr Ser Ser Met Lys Lys Thr Thr
 595 600 605
 Thr Leu Ser Gly Thr Ala Pro Ala Ala Gly Val Val Pro Ser Arg Val
 610 615 620
 Lys Ala Thr Pro Met Pro Ser Arg Pro Ser Thr Thr Pro Phe Ile Asp
 625 630 635 640
 Lys Lys Pro Thr Ser Ala Lys Pro Ser Ser Thr Thr Pro Arg Leu Ser
 645 650 655
 Arg Leu Ala Thr Asn Thr Ser Ala Pro Asp Leu Lys Asn Val Arg Ser
 660 665 670

Lys Ala Lys Val Glu Lys Lys Thr Glu Ala Ala Ala Thr Thr Arg Lys
675 680 685
Pro Glu Ser Asn Ala Val Thr Lys Thr Ala Gly Pro Ile Ala Ser Ala
690 695 700
Gln Lys Gln Pro Ala Gly Lys Val Gln Ile Val Ser
705 710 715

<210> 3057

<211> 743

<212> PRT

<213> Homo sapiens

<400> 3057

Met	Leu	His	Phe	Asn	Arg	Cys	His	His	Leu	Lys	Lys	Ile	Thr	Gln	Lys
1				5					10					15	
Cys	Phe	Ser	Ser	Ile	His	Val	Lys	Thr	Asp	Lys	His	Ala	Gln	Arg	Phe
			20					25					30		
Leu	Ser	Arg	Thr	Phe	Ala	Leu	Ala	Glu	Leu	Arg	Lys	Ser	Trp	Tyr	Ser
		35					40					45			
Thr	His	Ser	Leu	Val	Gly	Asp	Lys	Asn	Ile	Ile	Leu	Met	Gly	Pro	Pro
	50					55				60					
Gly	Ala	Gly	Lys	Thr	Thr	Val	Gly	Arg	Ile	Ile	Gly	Gln	Lys	Leu	Gly
65				70					75					80	
Cys	Cys	Val	Ile	Asp	Val	Asp	Asp	Asp	Ile	Leu	Glu	Lys	Thr	Trp	Asn
			85					90					95		
Met	Ser	Val	Ser	Glu	Lys	Leu	Gln	Asp	Val	Gly	Asn	Glu	Gln	Phe	Leu
		100					105					110			
Glu	Glu	Glu	Gly	Lys	Ala	Val	Leu	Asn	Phe	Ser	Ala	Ser	Gly	Ser	Val
	115					120					125				
Ile	Ser	Leu	Thr	Gly	Ser	Asn	Pro	Met	His	Asp	Ala	Ser	Met	Trp	His
	130					135				140					
Leu	Lys	Lys	Asn	Gly	Ile	Ile	Val	Tyr	Leu	Asp	Val	Pro	Leu	Leu	Asp
145				150					155				160		
Leu	Ile	Cys	Arg	Leu	Lys	Leu	Met	Lys	Thr	Asp	Arg	Ile	Val	Gly	Gln
		165					170					175			

Asn Ser Gly Thr Ser Met Lys Asp Leu Leu Lys Phe Arg Arg Gln Tyr
 180 185 190
 Tyr Lys Lys Trp Tyr Asp Ala Arg Val Phe Cys Glu Ser Gly Ala Ser
 195 200 205
 Pro Glu Glu Val Ala Asp Lys Val Leu Asn Ala Ile Lys Arg Tyr Gln
 210 215 220
 Asp Val Asp Ser Glu Thr Phe Ile Ser Thr Arg His Val Trp Pro Glu
 225 230 235 240
 Asp Cys Glu Gln Lys Val Ser Ala Lys Phe Phe Ser Glu Ala Val Ile
 245 250 255
 Glu Gly Leu Ala Ser Asp Gly Gly Leu Phe Val Pro Ala Lys Glu Phe
 260 265 270
 Pro Lys Leu Ser Cys Gly Glu Trp Lys Ser Leu Val Gly Ala Thr Tyr
 275 280 285
 Val Glu Arg Ala Gln Ile Leu Leu Glu Arg Cys Ile His Pro Ala Asp
 290 295 300
 Ile Pro Ala Ala Arg Leu Gly Glu Met Ile Glu Thr Ala Tyr Gly Glu
 305 310 315 320
 Asn Phe Ala Cys Ser Lys Ile Ala Pro Val Arg His Leu Ser Gly Asn
 325 330 335
 Gln Phe Ile Leu Glu Leu Phe His Gly Pro Thr Gly Ser Phe Lys Asp
 340 345 350
 Leu Ser Leu Gln Leu Met Pro His Ile Phe Ala His Cys Ile Pro Pro
 355 360 365
 Ser Cys Asn Tyr Met Ile Leu Val Ala Thr Ser Gly Asp Thr Gly Ser
 370 375 380
 Ala Val Leu Asn Gly Phe Ser Arg Leu Asn Lys Asn Asp Lys Gln Arg
 385 390 395 400
 Ile Ala Val Val Ala Phe Phe Pro Glu Asn Gly Val Ser Asp Phe Gln
 405 410 415
 Lys Ala Gln Ile Ile Gly Ser Gln Arg Glu Asn Gly Trp Ala Val Gly
 420 425 430
 Val Glu Ser Asp Phe Asp Phe Cys Gln Thr Ala Ile Lys Arg Ile Phe
 435 440 445
 Asn Asp Ser Asp Phe Thr Gly Phe Leu Thr Val Glu Tyr Gly Thr Ile
 450 455 460

Leu Ser Ser Ala Asn Ser Ile Asn Trp Gly Arg Leu Leu Pro Gln Val
 465 470 475 480
 Val Tyr His Ala Ser Ala Tyr Leu Asp Leu Val Ser Gln Gly Phe Ile
 485 490 495
 Ser Phe Gly Ser Pro Val Asp Val Cys Ile Pro Thr Gly Asn Phe Gly
 500 505 510
 Asn Ile Leu Ala Ala Val Tyr Ala Lys Met Met Gly Ile Pro Ile Arg
 515 520 525
 Lys Phe Ile Cys Ala Ser Asn Gln Asn His Val Leu Thr Asp Phe Ile
 530 535 540
 Lys Thr Gly His Tyr Asp Leu Arg Glu Arg Lys Leu Ala Gln Thr Phe
 545 550 555 560
 Ser Pro Ser Ile Asp Ile Leu Lys Ser Ser Asn Leu Glu Arg His Leu
 565 570 575
 His Leu Met Ala Asn Lys Asp Gly Gln Leu Met Thr Glu Leu Phe Asn
 580 585 590
 Arg Leu Glu Ser Gln His His Phe Gln Ile Glu Lys Ala Leu Val Glu
 595 600 605
 Lys Leu Gln Gln Asp Phe Val Ala Asp Trp Cys Ser Glu Gly Glu Cys
 610 615 620
 Leu Ala Ala Ile Asn Ser Thr Tyr Asn Thr Ser Gly Tyr Ile Leu Asp
 625 630 635 640
 Pro His Thr Ala Val Ala Lys Val Val Ala Asp Arg Val Gln Asp Lys
 645 650 655
 Thr Cys Pro Val Ile Ile Ser Ser Thr Ala His Tyr Ser Lys Phe Ala
 660 665 670
 Pro Ala Ile Met Gln Ala Leu Lys Ile Lys Glu Ile Asn Glu Thr Ser
 675 680 685
 Ser Ser Gln Leu Tyr Leu Leu Gly Ser Tyr Asn Ala Leu Pro Pro Leu
 690 695 700
 His Glu Ala Leu Leu Glu Arg Thr Lys Gln Gln Glu Lys Met Glu Tyr
 705 710 715 720
 Gln Val Cys Ala Ala Asp Met Asn Val Leu Lys Ser His Val Glu Gln
 725 730 735
 Leu Val Gln Asn Gln Phe Ile
 740

<210> 3058

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3058

```

Met Pro Gly Val Phe Ala Lys Arg Pro Ala Arg Val Gly Asp Gly Lys
 1             5             10             15
Arg Glu Gly Lys Lys Ser Arg Arg Arg Cys Gly Gln Lys Gly Arg Arg
      20             25             30
Glu Arg Ala Gln His Pro Phe Gln Gly Phe Phe Leu Glu Leu Ala Pro
      35             40             45
Thr Ser Lys Arg Gly Glu Ala Ser Leu Ala Pro Leu Trp Gln His Ser
      50             55             60
Asp Ala Ile Leu Leu Gln Leu Arg Val Arg Thr Ile Ser Pro His Ala

      65             70             75             80
Arg His Val Gln Asp Tyr Thr Glu Thr Ser Trp Pro Gly His Gly Pro
      85             90             95
Asn Pro Arg Phe Phe Ile Leu Tyr Glu Gly Arg Ser Phe His Ser Glu
      100            105            110
Thr Thr Asn Leu Gln Asn
      115

```

<210> 3059

<211> 275

<212> PRT

<213> Homo sapiens

<400> 3059

```

Met Pro Leu Val Glu Pro Pro Glu Gly Pro Pro Val Leu Ser Leu Gln
 1             5             10             15

```

Gln Leu Glu Ala Trp Asp Leu Asp Asp Ile Leu Gln Ser Leu Ala Gly
 20 25 30
 Gln Glu Asp Asn Gln Gly Asn Arg Ala Pro Gly Thr Val Trp Trp Ala
 35 40 45
 Ala Asp His Arg Gln Val Gln Asp Cys Met Val Pro Ser Ala His Asn
 50 55 60
 Arg Leu Met Glu Gln Leu Ala Leu Leu Cys Thr Thr Gln Ser Lys Ala
 65 70 75 80
 Ser Ala Cys Ala Arg Lys Val Pro Ala Asp Thr Pro Gln Asp Thr Lys
 85 90 95
 Glu Ala Asp Ser Gly Ser Arg Cys Ala Ser Arg Lys Arg Gly Ser Gln
 100 105 110
 Ala Gly Pro Gly Pro Gln Leu Ala Gln Gly Met Arg Leu Asn Ala Glu
 115 120 125
 Ser Pro Thr Ile Phe Ile Asp Leu Arg Gln Met Glu Leu Pro Asp His
 130 135 140
 Leu Ser Pro Glu Ser Ser Ser His Ser Ser Ser Asp Ser Glu Glu Glu
 145 150 155 160
 Glu Glu Glu Glu Met Ala Ala Leu Gly Asp Ala Glu Gly Ala Ser Pro
 165 170 175
 Ser Ser Leu Gly Leu Arg Thr Cys Thr Gly Lys Ser Gln Leu Leu Gln
 180 185 190
 Gln Leu Arg Ala Phe Gln Lys Gly Thr Ala Gln Pro Glu Leu Pro Ala
 195 200 205
 Ser Lys Gly Pro Ala Gly Gly Arg Ala Gln Ala Leu Glu Asp Thr Ala
 210 215 220
 Gly Ser Arg Thr Gly Arg Lys Gln His Met Lys Leu Cys Ala Lys Gly
 225 230 235 240
 Gln Ser Ala Gln Ala Arg Leu Pro Arg Gly Arg Pro Arg Ala Leu Gly
 245 250 255
 Asp Val Pro Glu Pro Gly Ala Ala Arg Glu Ala Leu Met Pro Pro Leu
 260 265 270
 Glu Gln Leu
 275

<210> 3060

<211> 213

<212> PRT

<213> Homo sapiens

<400> 3060

```

Met Val Pro Glu Glu Glu Pro Gln Asp Arg Glu Lys Gly Leu Trp Trp
  1              5              10              15
Phe Gln Leu Lys Val Trp Ser Met Ala Val Val Ser Ile Leu Leu Leu
      20              25              30
Ser Val Cys Phe Thr Val Ser Ser Val Val Pro His Asn Phe Met Tyr
      35              40              45
Gly Lys Thr Val Lys Arg Leu Ser Lys Leu Arg Glu Tyr Gln Gln Tyr
      50              55              60
His Pro Ser Leu Thr Cys Val Met Glu Gly Lys Asp Ile Glu Asp Trp
      65              70              75              80
Ser Cys Cys Pro Thr Pro Trp Thr Ser Phe Gln Ser Ser Cys Tyr Phe
      85              90              95
Ile Ser Thr Gly Met Gln Ser Trp Thr Lys Ser Gln Lys Asn Cys Ser
      100             105             110
Val Met Gly Ala Asp Leu Val Val Ile Asn Thr Arg Glu Glu Gln Asp
      115             120             125
Phe Ile Ile Gln Asn Leu Lys Arg Asn Ser Ser Tyr Phe Leu Gly Leu
      130             135             140
Ser Asp Pro Gly Gly Arg Arg His Trp Gln Trp Val Asp Gln Thr Pro
      145             150             155             160
Tyr Asn Glu Asn Val Thr Phe Trp His Ser Gly Glu Pro Asn Asn Leu
      165             170             175
Asp Glu Arg Cys Ala Ile Thr Asn Phe Arg Ser Ser Glu Glu Trp Gly
      180             185             190
Trp Asn Asp Ile His Cys His Val Pro Gln Lys Ser Ile Cys Lys Met
      195             200             205
Lys Lys Ile Tyr Ile
      210

```

<210> 3061

<211> 190

<212> PRT

<213> Homo sapiens

<400> 3061

```

Met Ile Ser Phe Ser Gly Leu Glu Arg Met Leu Lys Thr Tyr Ser Ser
  1             5             10             15
Thr Ser Ser Phe Ser Asp Ala Lys Ser Gln Lys Asp Thr Ala Ala Leu
      20             25             30
Met Asp Glu Asn Asn Leu Lys Leu Asp Leu Leu Glu Ala Asn Ser Tyr
      35             40             45
Lys Leu Ser Ser Met Leu Ala Glu Leu Glu Gln Arg Pro Gln Pro Ser
      50             55             60
His Pro Cys Ser Asn Ser Ile Phe Arg Trp Arg Glu Lys Glu His Thr
      65             70             75             80
His Ser Tyr Val Lys Ile Ser Arg Pro Phe Leu Met Lys Arg Leu Glu
      85             90             95
Asn Ile Val Ser Lys Ala Ser Ser Gly Gly Gln Ser Asn Pro Gly Ser
      100            105            110
Ser Thr Pro Ala Pro Gly Ala Ala Gln Leu Ser Ser Arg Leu Cys Lys
      115            120            125
Ala Leu Tyr Ser Phe Gln Ala Arg Gln Asp Gly Glu Leu Asn Leu Glu
      130            135            140
Lys Gly Asp Ile Val Ile Ile His Glu Lys Lys Glu Glu Gly Trp Trp
      145            150            155            160
Phe Gly Ser Leu Asn Gly Lys Lys Gly His Phe Ser Ala Ala Tyr Val
      165            170            175
Glu Glu Leu Pro Ser Asn Ala Gly Asn Thr Ala Thr Lys Ala
      180            185            190

```

<210> 3062

<211> 574

<212> PRT

<213> Homo sapiens

<400> 3062

Met Val Ala Arg Gly Glu Ile Ala Arg Phe Trp Ser Leu Glu Ser Leu
 1 5 10 15
 His Leu Val Ser Ser Asp Gly Gly Thr Glu Pro Ser Ala Leu Val Asp
 20 25 30
 Asp Asn Gly Ser Glu Glu Asp Phe Ser Tyr Glu Asp Leu Cys Gln Ala
 35 40 45
 Ser Pro Arg Tyr Leu Gln Pro Gly Gly Glu Gln Leu Ala Ile Asn Glu
 50 55 60
 Leu Ile Ser Asp Gly Asn Val Val Cys Ala Glu Ala Leu Trp Asp His
 65 70 75 80
 Val Thr Met Asp Asp Gln Glu Leu Gly Phe Lys Ala Gly Asp Val Ile
 85 90 95
 Gln Val Leu Glu Ala Ser Asn Lys Asp Trp Trp Trp Gly Arg Ser Glu
 100 105 110
 Asp Lys Glu Ala Trp Phe Pro Ala Ser Phe Val Arg Leu Arg Val Asn
 115 120 125
 Gln Glu Glu Leu Ser Glu Asn Ser Ser Ser Thr Pro Ser Glu Glu Gln
 130 135 140
 Asp Glu Glu Ala Ser Gln Ser Arg His Arg His Cys Glu Asn Lys Gln
 145 150 155 160
 Gln Met Arg Thr Asn Val Ile Arg Glu Ile Met Asp Thr Glu Arg Val
 165 170 175
 Tyr Ile Lys His Leu Arg Asp Ile Cys Glu Gly Tyr Ile Arg Gln Cys
 180 185 190
 Arg Lys His Thr Gly Met Phe Thr Val Ala Gln Leu Ala Thr Ile Phe
 195 200 205
 Gly Asn Ile Glu Asp Ile Tyr Lys Phe Gln Arg Lys Phe Leu Lys Asp
 210 215 220
 Leu Glu Lys Gln Tyr Asn Lys Glu Glu Pro His Leu Ser Glu Ile Gly
 225 230 235 240
 Ser Cys Phe Leu Gln Asn Gln Glu Gly Phe Ala Ile Tyr Ser Glu Tyr
 245 250 255
 Cys Asn Asn His Pro Gly Ala Cys Leu Glu Leu Ala Asn Leu Met Lys
 260 265 270

Gln Gly Lys Tyr Arg His Phe Phe Glu Ala Cys Arg Leu Leu Gln Gln
 275 280 285
 Met Ile Asp Ile Ala Ile Asp Gly Phe Leu Leu Thr Pro Val Gln Lys
 290 295 300
 Ile Cys Lys Tyr Pro Leu Gln Leu Ala Glu Leu Leu Lys Tyr Thr Thr
 305 310 315 320
 Gln Glu His Gly Asp Tyr Ser Asn Ile Lys Ala Ala Tyr Glu Ala Met
 325 330 335
 Lys Asn Val Ala Cys Leu Ile Asn Glu Arg Lys Arg Lys Leu Glu Ser
 340 345 350
 Ile Asp Lys Ile Ala Arg Trp Gln Val Ser Ile Val Gly Trp Glu Gly
 355 360 365
 Leu Asp Ile Leu Asp Arg Ser Ser Glu Leu Ile His Ser Gly Glu Leu
 370 375 380
 Thr Lys Ile Thr Lys Gln Gly Lys Ser Gln Gln Arg Thr Phe Phe Leu
 385 390 395 400
 Phe Asp His Gln Leu Val Ser Cys Lys Lys Asp Leu Leu Arg Arg Asp
 405 410 415
 Met Leu Tyr Tyr Lys Gly Arg Leu Asp Met Asp Glu Met Glu Leu Val
 420 425 430
 Asp Leu Gly Asp Gly Arg Asp Lys Asp Cys Asn Leu Ser Val Lys Asn
 435 440 445
 Ala Phe Lys Leu Val Ser Arg Thr Thr Asp Glu Val Tyr Leu Phe Cys
 450 455 460
 Ala Lys Lys Gln Glu Asp Lys Ala Arg Trp Leu Gln Ala Cys Ala Asp
 465 470 475 480
 Glu Arg Arg Arg Val Gln Glu Asp Lys Glu Met Gly Met Glu Ile Ser
 485 490 495
 Glu Asn Gln Lys Lys Leu Ala Met Leu Asn Ala Gln Lys Ala Gly His
 500 505 510
 Gly Lys Ser Lys Gly Tyr Asn Arg Cys Pro Val Ala Pro Pro His Gln
 515 520 525
 Gly Leu His Pro Ile His Gln Arg His Ile Thr Met Pro Thr Ser Val
 530 535 540
 Pro Gln Gln Gln Val Phe Gly Leu Ala Glu Pro Lys Arg Lys Ser Ser
 545 550 555 560

Leu Phe Trp His Thr Phe Asn Arg Leu Thr Pro Phe Arg Lys

565

570

<210> 3063

<211> 703

<212> PRT

<213> Homo sapiens

<400> 3063

Met Met Ala His Cys Arg Ile Asp Leu Leu Gly Ser Ser Asp Pro Pro

1

5

10

15

Thr Ser Ala Ser Gln Ile Ala Glu Thr Thr Asp Val Ser His His Ala

20

25

30

Gly Leu Ile Glu Phe Leu Ala Leu Ser Asn Ser Ser Ala Leu Ala Ser

35

40

45

Arg Ser Val Glu Ile Thr Glu Ile Lys Leu Pro Val Glu Val Asp Ile

50

55

60

Gly Leu Thr Gln Ala Glu Gly Pro Asp Glu Thr Lys Asn Thr Glu Pro

65

70

75

80

Gln Met Gly Leu Val Ile Glu Pro Pro Gln Cys Gln Phe Ala Gln Gln

85

90

95

His Glu Gln Arg Lys Glu Ala Gly Asn Ile Glu Ser Gly Val Glu Pro

100

105

110

Pro Asp Arg Ile Arg Pro Ile Tyr Ser Gly Lys Phe Phe Asp Arg Thr

115

120

125

Pro Cys Trp Pro Ser Ala Gly Lys Val Ile Pro Val Gly Tyr Arg Val

130

135

140

Ala Ser Cys Leu Thr Glu Lys Leu Pro Arg Leu Ile Thr Pro Pro Glu

145

150

155

160

Ala Lys Lys Tyr Phe Asn Phe Arg Tyr Pro Pro Ala Gly Val Glu Arg

165

170

175

Val Phe Tyr Gly Arg Ala Asn Asp Pro Gln Ile Ala Pro Tyr Leu Thr

180

185

190

His Gly Ile Arg Ser Lys Ile Ser Val Leu Ala Asn Thr Leu Ile Asn

195

200

205

Pro Gln Pro Ile Thr Thr Phe Gln Gln Lys Ile Lys Asp Lys Lys Glu
 210 215 220
 Ser Ile Tyr Leu Ser Asn Arg Arg Ala Pro Leu Gly Lys Ser His Asp
 225 230 235 240
 Gln Ala Pro Gly Leu Pro Lys Gly Met Asp Thr Thr Asn Thr Thr Phe
 245 250 255
 Gly Thr Ala Val Ile Lys Glu Tyr Ser Ala Lys Asp Val Val Asn Pro
 260 265 270
 Pro Lys Ser Tyr Glu Glu Val Phe Lys Glu Gly Asn Glu Gly His Asp
 275 280 285
 Leu Tyr Val Val Ser His Asn Asp Tyr Tyr Ala Gly Glu Ala Lys Asn
 290 295 300
 Arg Lys Tyr Asn Pro Ser Ser Phe His Arg Cys Ser Val Tyr Gly Val
 305 310 315 320
 Pro Thr Pro His Phe Asn Asp Gly Arg Ala Met Ala Lys Ser Leu Tyr
 325 330 335
 Trp Leu His Glu Leu Gln Met Lys Arg Gly Ala Lys Phe Val Ser Lys
 340 345 350
 Arg Ala Asp Asp Phe Lys Glu Lys Phe Gln His Lys Leu Gly Arg Val
 355 360 365
 Leu Asp Pro Ile Ala Glu Thr Met Asn Val Pro Pro Asp Cys Thr Phe
 370 375 380
 Gly Ala Cys Leu Arg Pro Glu Glu Tyr Gly Val Gly Asp Leu Ile His
 385 390 395 400
 Asn Arg Leu Pro Asp Glu Tyr Leu Arg Gly Lys Asp Arg Gln Arg Ala
 405 410 415
 Leu Ile Ala Ala Val Arg His His Leu Lys Lys Val Asn Tyr Gln Lys
 420 425 430
 Phe Asp Thr Leu Leu Ala Ala Phe Arg His Tyr Asp Lys Lys Gly Asp
 435 440 445
 Gly Met Ile Asp Lys Asp Glu Leu Gln Glu Ala Cys Asp Gln Ala Asn
 450 455 460
 Leu Ser Leu Asp Asp Lys Leu Leu Asp Gln Leu Phe Asp Tyr Cys Asp
 465 470 475 480
 Val Asp Asn Asp Gly Phe Ile Asn Tyr Leu Glu Phe Ala Asn Phe Leu

	485		490		495
Asn Cys Lys Asp Lys Met Leu Leu Lys Glu Tyr Glu Glu Arg Val Ile					
500		505		510	
Ile Lys Gly Arg Lys Pro Asp Cys Val Asn Pro Thr Glu Ala Asn Val					
515		520		525	
Glu Glu Pro Glu Gln Thr Leu Leu Ile Lys Pro Glu Asp Ile Val Leu					
530		535		540	
Lys Glu Ala Gly Ser Thr Glu Lys Thr Leu Trp Thr Leu Leu Arg Pro					
545		550		555	
Ser Asp Lys Val Ser Asn Tyr Tyr Lys Thr Thr Ser Ser Glu Ile Asn					
565		570		575	
Ala Ile Val Gly Ala Ile Pro Ser Thr Cys Tyr Pro Ile Cys Gly Val					
580		585		590	
Pro Thr Ile Arg Ser Asp Ile Pro Ala Pro Arg Ile Arg Arg Thr Ser					
595		600		605	
Asp Arg Thr Asn Tyr Gly Glu Glu Gly Ser Ala Tyr Ser Leu Leu Tyr					
610		615		620	
Pro Thr Ile Phe Ala Arg Lys Gly Val Phe Glu Arg Asp Phe Phe Lys					
625		630		635	
Thr Arg Ser Lys Glu Glu Ile Ala Glu Ile Leu Cys Asn Ile Gly Val					
645		650		655	
Lys Leu Ser Asp Glu Glu Phe Glu Asn Val Trp Asn Leu Ala Ser Lys					
660		665		670	
Lys His His Arg Gly Glu Val Cys Val Glu Asn Ile Arg Asn Val Leu					
675		680		685	
Asp Glu Leu Arg His Ala Asp Arg Ile Lys Cys Lys Thr Leu Met					
690		695		700	

<210> 3064

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3064

Met Met Met Glu Arg Asp Val Phe Ile Leu Phe Tyr Phe Phe Arg Gln

1 5 10 15
 Ser Leu Ala Leu Ser Pro Ser Leu Glu Cys Asn Gly Thr Ile Ser Ala
 20 25 30
 His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asn Ser Pro Ala Ser Ala
 35 40 45
 Ser His Val Ala Gly Ile Thr Gly Thr His His His Ala Arg Leu Ile
 50 55 60
 Phe Leu Phe Leu Val Glu Met Gly Phe His His Val Gly Gln Ala Gly
 65 70 75 80
 Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Ala Leu Ala Ser Gln Ser
 85 90 95
 Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro Leu Phe Tyr Phe
 100 105 110
 Leu Glu Met Val Leu Leu Cys His Pro Gly Trp Ser Ala Val Met Gln
 115 120 125
 Ser

<210> 3065

<211> 274

<212> PRT

<213> Homo sapiens

<400> 3065

Met Cys Met Gly Gly Leu His Ala Gly Met Cys Val Ser Leu Cys Val
 1 5 10 15
 Cys Val Cys Ala Cys Val Cys Val His Val Gly Ile Cys Met His Ala
 20 25 30
 Cys Val Cys Leu Cys Met Cys Met Cys Val Cys Ala Cys Gly Asn Leu
 35 40 45
 His Ala Phe Leu Cys Val Phe Val Ser Val Tyr Thr Cys Met Gly Val
 50 55 60
 Phe Glu Cys Val His Leu Cys Val His Leu Phe Val Cys Ile Cys Val
 65 70 75 80
 Gly Ala Ser Ala Trp Ile Leu Val Cys Ile Cys Val Cys Ala His Val

	85	90	95
Cys Thr Cys Val His Ser Phe Val Tyr Val Cys Gly Cys Val His Val			
100	105	110	
Gly Met Arg Val Tyr Leu Cys Glu His Val Arg Met Cys Val Ser Leu			
115	120	125	
Cys Ala Cys Leu Cys Val Cys Ile His Val Arg Val Cys Ile Tyr Ala			
130	135	140	
Cys Ile Leu Val Cys Ala Leu Val Cys Met His Ile Cys Leu Glu Asp			
145	150	155	160
Met Ala Leu Pro Gln Gly Leu Gly Thr Leu Pro Cys Leu Pro Cys Pro			
165	170	175	
Ala Leu Pro Cys Pro Glu Val Trp Gly Thr Trp Pro Cys Ser Gly Val			
180	185	190	
Trp Gly Thr Leu Pro Trp Ala Pro Ala Cys Pro Gly Pro Leu Pro Ala			
195	200	205	
Leu Ala Ala His Leu Ala Leu Gly Pro Ala Glu Trp Asn Leu Gln Pro			
210	215	220	
Leu His Gly Leu Asp His Gly Pro His Gly His Glu Asp Val Leu Val			
225	230	235	240
Asp Gln Gly Pro Glu Ala Leu Ala Leu Leu Leu Arg Val Ala Gly Ala			
245	250	255	
Val Asp Asp Pro His Leu Leu Asp Glu Asp Glu Thr Arg Arg Thr Arg			
260	265	270	
Glu Val			

<210> 3066

<211> 238

<212> PRT

<213> Homo sapiens

<400> 3066

Met Ala Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
1 5 10 15
Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Leu Gln Ser Cys

20	25	30
Ala Thr Ala Ser Arg Leu Leu Phe Phe Phe Leu Leu Ser Ser Val Phe		
35	40	45
Phe Tyr Pro Thr Ser Leu Pro Leu Ser Ser Leu Leu Pro Pro Phe Pro		
50	55	60
Phe Ser Ser Leu Leu Pro Pro Ser Cys Phe Ser Pro Ser Phe Pro Leu		
65	70	75
Pro Ser Phe Leu Phe Leu Pro Phe Pro Val Cys Leu Pro Pro Leu Phe		
85	90	95
Leu Ser Cys Leu Pro Val Ser Phe Ala Leu Phe Leu Pro Phe Ser Arg		
100	105	110
Pro Ser Leu Pro Ala Phe Leu Phe Thr Ser Phe Pro Ser His Cys Phe		
115	120	125
Leu Ala Phe Pro Ala Phe Pro Cys Leu Ser Leu Ser Phe Leu Pro Phe		
130	135	140
Pro Ala Ser Leu Phe Pro Ala Phe Pro His Leu Ser Leu Ser Cys Leu		
145	150	155
Ser Leu Ser Leu Pro Phe Phe Pro Ser Pro Pro Thr Leu Pro Pro Ser		
165	170	175
Ser Leu Leu Phe Phe Pro Leu Leu Ser Leu Cys Leu Ser Phe Phe Phe		
180	185	190
Pro Ser Leu Phe Leu Phe Ser Pro Cys Val Phe Leu Ala Leu Val Phe		
195	200	205
Pro Phe Ser Pro Leu Cys Thr Glu Lys Met Thr Val Pro Gly Cys Gly		
210	215	220
Trp Ala Gly Val Thr Arg Pro Arg Glu Arg Gly His Pro Gly		
225	230	235

<210> 3067

<211> 233

<212> PRT

<213> Homo sapiens

<400> 3067

Met Asn Glu Gly Thr Val Gly Gly Lys Pro Arg Glu Asn Phe Gly Tyr

1	5	10	15
Ser Asp Glu Gly Ser Gly Glu Cys Gly Glu Arg Gln Ala Arg Ala Arg			
20	25	30	
Cys Ser Arg Leu Phe Pro Val Pro Ala Ser Arg Leu Ala His Ala Ser			
35	40	45	
Leu Pro Pro Glu Ile Val Gln Arg Arg Arg Asp Pro Gly Gly Ala Leu			
50	55	60	
Arg Met Pro Phe Arg Lys Leu Leu Leu Pro Arg Ala Trp Gly Leu Trp			
65	70	75	80
Cys Ser Gly Met Gly Cys Asp Ala Gly Leu Gln Gln Gly Leu Arg Pro			
85	90	95	
Leu His Val Cys His Lys His Phe Leu Val Leu Arg Ser Arg Pro Gly			
100	105	110	
Cys Ser Leu Pro Arg Ala Val Leu Ser Gln His Pro Gln Glu Gly Arg			
115	120	125	
Pro Gln Ala Glu Lys Pro Ala Gly Ala Tyr Cys Pro Glu Trp Ala Ser			
130	135	140	
Asn Pro Pro Leu Leu Gly Phe Trp Gly Gln Gly Pro Val His Lys Pro			
145	150	155	160
Leu Gln Val Pro Pro Ser Gly Leu Pro Ser Pro Gln Gly Trp Pro Arg			
165	170	175	
Glu Arg Leu Ser Glu Asp Cys Leu Leu His Pro Gly Gly Ser Ala Pro			
180	185	190	
Arg Ala Gly Pro Pro Gln Gly Gln Gly Val Pro Gln Ala Gly Pro Gln			
195	200	205	
Gly Leu Ser Arg Gly Thr Ala Gly Gly Ser Pro Leu Gly Arg Glu Glu			
210	215	220	
Asn Leu Ala Pro Gln Leu Ala Ala Ser			
225	230		

<210> 3068

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3068

Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro Glu Asp Pro Thr
 1 5 10 15
 Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Ile Leu
 20 25 30
 Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro Asn Arg Phe Lys
 35 40 45
 Leu Trp Phe Thr Leu Asp His Pro Pro Lys Gly Ile Leu Pro Ile Ser
 50 55 60
 Gly His Pro Thr Ile Pro Ser Ser Ser Lys Ser Lys Pro Cys Pro Phe
 65 70 75 80
 Val Asn Ser Gly Phe Ile Glu Ile Asn Leu Ala Ser His Cys Gln Leu
 85 90 95
 Gly Ser Leu Ser Ala Gln Thr Gln
 100

<210> 3069

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3069

Met Val Ser Asn Ser Ile Ser Tyr His Leu Pro Val Ser Leu Gln Asp
 1 5 10 15
 Pro Cys Ser Gln Ile Pro Ser Arg Ser Ile Cys Leu Cys His Ser Arg
 20 25 30
 Thr His Gly Leu Lys Phe Cys Phe Leu Pro Ser Ala Cys Ala Ile Ala
 35 40 45
 Gly Pro Met Val Thr Asn Ser Ile Ser Tyr His Leu Pro Val Ser Leu
 50 55 60
 Gln Asp Pro Cys Ser Gln Ile Pro Ser Arg Ser Ile Cys Leu Cys His
 65 70 75 80
 Ser Arg Thr His Gly His Lys Phe His Leu Leu Pro Ser Ala Cys Ala
 85 90 95
 Ile Ala Gly Pro Met Val Thr Asn Ser Ile Ser Tyr His Leu Pro Val

100 105 110
 Ser Leu Gln Asp Pro Cys Ser Gln Ile Pro Ser Arg Thr Ile Cys Leu
 115 120 125
 Cys His Ser Arg Thr His Gly His Lys Phe His Leu Leu Pro Ser Ala

 130 135 140
 Cys Val Ile Ala Gly Ser Met Val Thr Asn Ser Ile Ser Tyr His Leu
 145 150 155 160
 Pro Val Pro

<210> 3070

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3070

Met Asn Ser Cys Gln Glu His Cys Leu His Lys Gly Arg Ser Leu Pro
 1 5 10 15
 Asp Leu Arg Thr Gln Gln Asn Phe Tyr Phe Val Lys Asn Leu Ile Phe
 20 25 30
 Ser Leu His His Ser Phe Gln Val Asn Ile Gln Gln Ser Ala Phe Gln
 35 40 45
 Phe Arg Glu Met Phe Thr Val Val Trp Phe Ser Leu Phe Leu Gly Thr
 50 55 60
 Arg Leu Pro His Leu Glu His Ile Thr Ser Ala Lys Leu Ser Ile Pro
 65 70 75 80
 Lys Gln Tyr Arg Phe Leu Leu Leu Ser Arg Ser Ser Ser Gly Cys Gly
 85 90 95
 Arg Gln Thr Phe Gln Asn Cys Leu Pro Ser Phe Pro Pro Pro Glu Met
 100 105 110
 His Ala Phe Val
 115

<210> 3071

<211> 282

<212> PRT

<213> Homo sapiens

<400> 3071

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Met Gly Arg Arg Leu His Ser Ala His Asp Pro Gly Leu Ser Lys Thr
  1             5             10             15
Ser Thr Ala Glu Met Glu His Gly Leu His Glu Ala Arg Thr Val Arg
      20             25             30
Thr Ser Gln Asp Ser Ser Asn Val Arg Lys Pro Leu Glu Thr Gly His
      35             40             45
Arg Cys Ser Ser Ser Ser Ser Leu Pro Val Ile His Asp Pro Ser Val
      50             55             60
Phe Leu Leu Gly Pro Gln Leu Tyr Leu Pro Gln Pro Gln Phe Leu Ser
      65             70             75             80
Pro Asp Val Leu Met Pro Thr Met Ala Gly Glu Pro Asn Arg Leu Pro
      85             90             95
Gly Thr Ser Arg Ser Val Gln Gln Phe Leu Ala Met Cys Asp Arg Gly
      100            105            110
Glu Thr Ser Gln Gly Ala Lys Tyr Thr Gly Arg Thr Leu Asn Tyr Gln
      115            120            125
Ser Leu Pro His Arg Ser Arg Thr Asp Asn Ser Trp Ala Pro Trp Ser
      130            135            140
Glu Thr Asn Gln His Ile Gly Thr Arg Phe Leu Thr Thr Pro Gly Cys
      145            150            155            160
Asn Pro Gln Leu Thr Tyr Thr Ala Thr Leu Pro Glu Arg Ser Lys Gly
      165            170            175
Leu Gln Val Pro His Thr Gln Ser Trp Ser Asp Leu Phe His Ser Pro
      180            185            190
Ser His Pro Pro Ile Val His Pro Val Tyr Pro Pro Ser Ser Ser Leu
      195            200            205
His Val Pro Leu Arg Ser Ala Trp Asn Ser Asp Pro Val Pro Gly Ser
      210            215            220
Arg Thr Pro Gly Pro Arg Arg Val Asp Met Pro Pro Asp Asp Asp Trp
      225            230            235            240

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Arg Gln Ser Ser Tyr Ala Ser His Ser Gly His Arg Arg Thr Val Gly
 245 250 255
 Glu Gly Phe Leu Phe Val Leu Ser Asp Ala Pro Arg Arg Glu Gln Ile
 260 265 270
 Arg Ala Arg Val Leu Gln His Ser Gln Trp
 275 280

<210> 3072

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3072

Met Asp Gly Leu Pro Ser His Arg Pro Val Ile Glu Leu Cys Ile Pro
 1 5 10 15
 Ser Ser Leu Asp Pro Thr Leu Ala Pro Pro Gly Cys His Val Val Ser
 20 25 30
 Leu Phe Thr Gln Tyr Thr Pro Tyr Thr Leu Ala Gly Gly Lys Ala Trp
 35 40 45
 Asp Glu Gln Glu Arg Asp Ala Tyr Ala Asp Arg Val Phe Asp Cys Ile
 50 55 60
 Glu Val Tyr Ala Pro Gly Phe Lys Asp Ser Val Val Gly Arg Asp Ile
 65 70 75 80
 Leu Thr Pro Pro Asp Leu Glu Arg Ile Phe Gly Leu Pro Gly Gly Lys
 85 90 95
 Ile Ser Trp Lys Glu Lys Asn Ile Cys
 100 105

<210> 3073

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3073

Met Lys Arg Pro Ser Pro Gly Leu Pro Leu Ser Pro Phe Pro Ser Pro
 1 5 10 15
 Leu His Ser Trp Ser Thr Ser Trp Lys Asn Thr Ser Trp Gly Ala Ala
 20 25 30
 Phe Pro Ser Lys Arg Trp Gly Leu His Ser Gln Pro Ala Ile Arg Lys
 35 40 45
 Leu Asn Arg Ser Ser Pro Arg Ser Arg Val Ser Thr Gly Arg Ala Arg
 50 55 60
 Val Asp Gln Leu Cys Ser Ser Gly Thr Asn Pro Pro Tyr Met Pro Gly
 65 70 75 80
 Leu Glu Ala Phe Gly Phe Val Asp Ala Lys Ser Gly Trp Ser Arg Leu
 85 90 95
 Leu His Pro Asp Ser Pro Ala Ser Pro Phe
 100 105

<210> 3074

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3074

Met Ser Ser Arg Glu Leu Lys Arg Arg Phe Glu Val Phe Gly Glu Ile
 1 5 10 15
 Glu Glu Cys Glu Val Leu Thr Arg Asn Arg Arg Gly Glu Lys Tyr Gly
 20 25 30
 Phe Ile Thr Tyr Arg Cys Ser Glu His Ala Ala Leu Ser Leu Thr Lys
 35 40 45
 Gly Ala Ala Leu Arg Lys Arg Asn Glu Pro Ser Phe Gln Leu Ser Tyr
 50 55 60
 Gly Gly Leu Arg His Phe Cys Trp Pro Arg Tyr Thr Asp Tyr Gly Lys
 65 70 75 80
 Pro Leu Lys Pro Ser His Ser Leu Val Arg Leu Lys Ala Trp Glu Ala
 85 90 95
 Val Pro Ser Leu Asn Lys Thr Gln Ser
 100 105

<210> 3075

<211> 187

<212> PRT

<213> Homo sapiens

<400> 3075

```

Met Ala Tyr Glu Val Tyr Tyr Gly Leu Thr Glu Glu Glu Gly Ala Val
  1             5             10             15
Pro Ala Glu His Gln Val Ala Met Ala Ala Ala Arg Ala Leu Gly Asp
             20             25             30
Val Thr Val Leu Gly Ser Leu Leu Leu Gln His Leu Leu His Phe Ser
             35             40             45
Thr Pro Gly Leu Val Leu Arg Ser Leu Gly Ala Leu Thr Gly Pro Gln
             50             55             60
Leu Leu Ser Leu Ala Gln Ser Pro Ala Gly Ser His Val Leu Asp Ala
             65             70             75             80
Ile Leu Thr Ser Pro Ser Val Thr Arg Lys Leu Arg Arg Arg Val Leu
             85             90             95
Gln Asn Leu Lys Gly Gln Tyr Val Ala Leu Ala Cys Ser Arg His Gly
             100            105            110
Ser Arg Val Leu Asp Ala Ile Trp Ser Gly Ala Ala Leu Arg Ala Arg
             115            120            125
Lys Glu Ile Ala Ala Glu Leu Gly Glu Gln Asn Gln Glu Leu Ile Arg
             130            135            140
Asp Pro Phe Gly His His Val Ala Arg Asn Val Ala Leu Thr Thr Phe
             145            150            155            160
Leu Lys Arg Arg Glu Ala Trp Glu Gln Gln Gln Gly Ala Val Ala Lys
             165            170            175
Arg Arg Arg Ala Leu Asn Ser Ile Leu Glu Asp
             180            185

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<210> 3076

<211> 565

<212> PRT

<213> Homo sapiens

<400> 3076

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Met Asp Val Val Phe Leu Ile Asp Asn Ser Arg Asn Ile Ala Lys Asp
  1             5             10             15
Glu Phe Lys Ala Val Lys Ala Leu Val Ser Ser Val Ile Asp Asn Phe
      20             25             30
Asn Ile Ala Ser Asp Pro Leu Ile Ser Asp Ser Gly Asp Arg Ile Ala
      35             40             45
Leu Leu Ser Tyr Ser Pro Trp Glu Ser Ser Arg Arg Lys Met Gly Thr
      50             55             60
Val Lys Thr Glu Phe Asp Phe Ile Thr Tyr Asp Asn Gln Leu Leu Met
      65             70             75             80
Lys Asn His Ile Gln Thr Ser Phe Gln Gln Leu Asn Gly Glu Ala Thr
      85             90             95
Ile Gly Arg Ala Leu Leu Trp Thr Thr Glu Asn Leu Phe Pro Glu Thr
      100            105            110
Pro Tyr Leu Arg Lys His Lys Val Ile Phe Val Val Ser Ala Gly Glu
      115            120            125
Asn Tyr Glu Arg Lys Glu Phe Val Lys Met Met Ala Leu Arg Ala Lys
      130            135            140
Cys Gln Gly Tyr Val Ile Phe Val Ile Ser Leu Gly Ser Thr Arg Lys
      145            150            155            160
Asp Asp Met Glu Glu Leu Ala Ser Tyr Pro Leu Asp Gln His Leu Ile
      165            170            175
Gln Leu Gly Arg Ile His Lys Pro Asp Leu Asn Tyr Ile Ala Lys Phe
      180            185            190
Leu Lys Pro Phe Leu Tyr Ser Val Arg Arg Gly Phe Asn Gln Tyr Pro
      195            200            205
Pro Pro Met Leu Glu Asp Ala Cys Arg Leu Ile Asn Leu Gly Gly Glu
      210            215            220
Asn Ile Arg Asn Asp Gly Phe Gln Phe Val Thr Glu Leu Gln Glu Asp
      225            230            235            240
Phe Leu Gly Asp Asn Gly Phe Ile Gly Gln Glu Leu Asn Ser Gly Arg
      245            250            255

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Glu Ser Pro Phe Val Lys Thr Glu Asp Asn Gly Ser Asp Tyr Leu Val
 260 265 270
 Tyr Leu Pro Ser Gln Met Phe Glu Pro Gln Lys Leu Met Ile Asn Tyr
 275 280 285
 Glu Lys Asp Gln Lys Ser Ala Glu Ile Ala Ser Leu Thr Ser Gly His
 290 295 300
 Glu Asn Tyr Gly Arg Lys Glu Glu Pro Asp His Thr Tyr Glu Pro Gly
 305 310 315 320
 Asp Val Ser Leu Gln Glu Tyr Tyr Met Asp Val Ala Phe Leu Ile Asp
 325 330 335
 Ala Ser Gln Arg Val Gly Ser Asp Glu Phe Lys Glu Val Lys Ala Phe
 340 345 350
 Ile Thr Ser Val Leu Asp Tyr Phe His Ile Ala Pro Thr Pro Leu Thr
 355 360 365
 Ser Thr Leu Gly Asp Arg Val Ala Val Leu Ser Tyr Ser Pro Pro Gly
 370 375 380
 Tyr Met Pro Asn Thr Glu Glu Cys Pro Val Tyr Leu Glu Phe Asp Leu
 385 390 395 400
 Val Thr Tyr Asn Ser Ile His Gln Met Lys His His Leu Gln Asp Ser
 405 410 415
 Gln Gln Leu Asn Gly Asp Val Phe Ile Gly His Ala Leu Gln Trp Thr
 420 425 430
 Ile Asp Asn Val Phe Val Gly Thr Pro Asn Leu Arg Lys Asn Lys Val
 435 440 445
 Ile Phe Val Ile Ser Ala Gly Glu Thr Asn Ser Leu Asp Lys Asp Val
 450 455 460
 Leu Arg Asn Val Ser Leu Arg Ala Lys Cys Gln Gly Tyr Ser Ile Phe
 465 470 475 480
 Val Phe Ser Phe Gly Pro Lys His Asn Asp Lys Glu Leu Glu Glu Leu
 485 490 495
 Ala Ser His Pro Leu Asp His His Leu Val Gln Leu Gly Arg Thr His
 500 505 510
 Lys Pro Asp Trp Asn Tyr Ile Ile Lys Phe Val Lys Pro Phe Val His
 515 520 525
 Leu Ile Arg Arg Ala Ile Asn Lys Tyr Pro Thr Glu Asp Met Lys Ala
 530 535 540

Thr Cys Val Asn Met Thr Ser Pro Asn Pro Glu Asn Gly Gly Thr Glu
545 550 555 560
Asn Thr Val Leu Trp
565

<210> 3077
<211> 304
<212> PRT
<213> Homo sapiens

<400> 3077																	
Met	Gly	Gln	Cys	Val	Thr	Lys	Cys	Lys	Asn	Pro	Ser	Ser	Thr	Leu	Gly		
1				5				10				15					
Ser	Lys	Asn	Gly	Asp	Arg	Glu	Pro	Ser	Asn	Lys	Ser	His	Ser	Arg	Arg		
20				25				30									
Gly	Ala	Gly	His	Arg	Glu	Glu	Gln	Val	Pro	Pro	Cys	Gly	Lys	Pro	Gly		
35				40				45									
Gly	Asp	Ile	Leu	Val	Asn	Gly	Thr	Lys	Lys	Ala	Glu	Ala	Ala	Thr	Glu		
50				55				60									
Ala	Cys	Gln	Leu	Pro	Thr	Ser	Ser	Gly	Asp	Ala	Gly	Arg	Glu	Ser	Lys		
65				70				75				80					
Ser	Asn	Ala	Glu	Glu	Ser	Ser	Leu	Gln	Arg	Leu	Glu	Glu	Leu	Phe	Arg		
85				90				95									
Arg	Tyr	Lys	Asp	Glu	Arg	Glu	Asp	Ala	Ile	Leu	Glu	Glu	Gly	Met	Glu		
100				105				110									
Arg	Phe	Cys	Asn	Asp	Leu	Cys	Val	Asp	Pro	Thr	Glu	Phe	Arg	Val	Leu		
115				120				125									
Leu	Leu	Ala	Trp	Lys	Phe	Gln	Ala	Ala	Thr	Met	Cys	Lys	Phe	Thr	Arg		
130				135				140									
Lys	Glu	Phe	Phe	Asp	Gly	Cys	Lys	Ala	Ile	Ser	Ala	Asp	Ser	Ile	Asp		
145				150				155				160					
Gly	Ile	Cys	Ala	Arg	Phe	Pro	Ser	Leu	Leu	Thr	Glu	Ala	Lys	Gln	Glu		
165				170				175									
Asp	Lys	Phe	Lys	Asp	Leu	Tyr	Arg	Phe	Thr	Phe	Gln	Phe	Gly	Leu	Asp		

180	185	190
Ser Glu Glu Gly Gln Arg Ser Leu His Arg Glu Ile Ala Ile Ala Leu		
195	200	205
Trp Lys Leu Val Phe Thr Gln Asn Asn Pro Pro Val Leu Asp Gln Trp		
210	215	220
Leu Asn Phe Leu Thr Glu Asn Pro Ser Gly Ile Lys Gly Ile Ser Arg		
225	230	235
Asp Thr Trp Asn Met Phe Leu Asn Phe Thr Gln Val Ile Gly Pro Asp		
245	250	255
Leu Ser Asn Tyr Ser Glu Asp Glu Ala Trp Pro Ser Leu Phe Asp Thr		
260	265	270
Phe Val Glu Trp Glu Met Glu Arg Arg Lys Arg Glu Gly Glu Gly Arg		
275	280	285
Gly Ala Leu Ser Ser Gly Pro Glu Gly Leu Cys Pro Glu Glu Gln Thr		
290	295	300

<210> 3078

<211> 159

<212> PRT

<213> Homo sapiens

<400> 3078

Met Ser Arg Thr Thr Ala Gly Pro Thr Leu Ser Arg Glu Gln Gly Ala		
1	5	10
Ala Leu Ser Cys Leu Leu Leu Glu Pro Ala Lys Asp Glu Ala Met Pro		
20	25	30
Gln Leu Pro Leu Arg Ser Thr Gln Cys Trp Pro His Arg Pro Thr Gln		
35	40	45
Gly Ala Glu Leu Ser Pro Gly Ala His Gly Ala Gly Gln Arg Gln Arg		
50	55	60
Pro Leu Gly Arg Ser Ala Gln Ser Trp Val Gly Pro Ala Ser Gly Thr		
65	70	75
Leu Arg Pro Pro His Pro Pro Asp Leu Leu Ser Arg Arg Asn Pro Thr		
85	90	95
Arg Ala Ala Pro Ser Ala Pro Pro Ser Arg Asp Lys Leu Thr Ser Asp		

	100		105		110										
Asn	Asp	Phe	Ile	Leu	Thr	Tyr	Leu	Ile	Thr	Ala	Ala	Pro	Pro	Pro	Ser
	115		120		125										
Ser	Leu	Ser	Arg	Glu	Gln	Thr	Leu	Trp	Pro	Ala	Pro	Asp	Ser	Ala	Pro
	130		135		140										
Thr	Pro	Ser	Ala	Asn	Leu	Lys	Gly	Asn	Lys	Tyr	Lys	Leu	Tyr	Lys	
145			150		155										

<210> 3079

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3079

Met	Phe	Pro	Phe	Cys	Ile	Ser	His	Thr	Arg	Asp	Pro	Lys	Val	Cys	Leu
1				5					10				15		
Pro	His	Phe	Asn	Trp	Gly	Gly	Leu	Asp	Lys	Val	Glu	Phe	Gln	Leu	Gln
			20					25					30		
Glu	Thr	Gly	Cys	Asp	Met	Gly	Glu	Val	Pro	Lys	Ala	His	Arg	Leu	Lys
		35					40					45			
Leu	Arg	Trp	Leu	Phe	Pro	Val	Ser	Leu	Cys	Arg	Ala	Pro	Leu	Leu	Ser
	50					55				60					
Thr	Ala	His	Leu	Ala	Leu	Leu	Leu	Pro	Ser	Cys	Leu	Leu	Cys	Ser	Ser
65			70					75					80		
Cys	Tyr	Tyr	Phe	Pro	Phe	Leu	Ser	Leu	Leu	Pro	Pro	Trp	Pro	Asn	Leu
			85					90					95		
Phe	His	Arg	Asn	Ile	Thr	Gly	Pro	Ala	Arg	His	Ser	Gly	Ser	Pro	Leu
			100					105					110		

<210> 3080

<211> 295

<212> PRT

<213> Homo sapiens

<400> 3080

Met Gly Glu Trp Ala Phe Leu Gly Ser Leu Leu Asp Ala Val Gln Leu
 1 5 10 15
 Gln Ser Pro Leu Val Gly Arg Leu Trp Leu Val Val Met Leu Ile Phe
 20 25 30
 Arg Ile Leu Val Leu Ala Thr Val Gly Gly Ala Val Phe Glu Asp Glu
 35 40 45
 Gln Glu Glu Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Arg Gln Thr
 50 55 60
 Cys Tyr Asp Arg Ala Phe Pro Val Ser His Tyr Arg Phe Trp Leu Phe
 65 70 75 80
 His Ile Leu Leu Leu Ser Ala Pro Pro Val Leu Phe Val Val Tyr Ser
 85 90 95
 Met His Arg Ala Gly Lys Glu Ala Gly Gly Ala Glu Ala Ala Ala Gln
 100 105 110
 Cys Ala Pro Gly Leu Pro Glu Ala Gln Cys Ala Pro Cys Ala Leu Arg
 115 120 125
 Ala Arg Arg Ala Arg Arg Cys Tyr Leu Leu Ser Val Ala Leu Arg Leu
 130 135 140
 Leu Ala Glu Leu Thr Phe Leu Gly Gly Gln Ala Leu Leu Tyr Gly Phe
 145 150 155 160
 Arg Val Ala Pro His Phe Ala Cys Ala Gly Pro Pro Cys Pro His Thr
 165 170 175
 Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe Val Leu
 180 185 190
 Phe Tyr Phe Ala Val Gly Leu Leu Ser Ala Leu Leu Ser Val Ala Glu
 195 200 205
 Leu Gly His Leu Leu Trp Lys Gly Arg Pro Arg Ala Gly Glu Arg Asp
 210 215 220
 Asn Arg Cys Asn Arg Ala His Glu Glu Ala Gln Lys Leu Leu Pro Pro
 225 230 235 240
 Pro Pro Pro Pro Pro Ile Val Val Thr Trp Glu Glu Asn Arg His Leu
 245 250 255
 Gln Gly Glu Gly Ser Pro Gly Ser Pro His Pro Lys Thr Glu Leu Asp
 260 265 270
 Ala Pro Arg Phe Arg Arg Glu Ser Thr Ser Pro Ala Gly Trp His Cys

275 280 285
 Ser Leu Pro Phe His Gly Thr
 290 295

<210> 3081

<211> 134

<212> PRT

<213> Homo sapiens

<400> 3081

Met Phe Ser Ser Phe Arg Phe Leu Tyr Lys Ala Lys Met Ser Phe Pro
 1 5 10 15
 Ser Ile Thr Lys Ser Ser Tyr Gly Tyr Ile Asn Pro Lys Ser Pro Leu
 20 25 30
 Leu Leu Lys Gly Tyr Asp Gln Val Ile Thr Cys Thr Leu Leu Pro Pro
 35 40 45
 Thr Leu Pro Ser Ser Leu Asn Lys His Val Ala Gln Trp Phe Pro Asn
 50 55 60
 Leu Ala Ala His Ser Tyr Gln Ser Pro Gly Asp Phe Phe Lys Ile Leu
 65 70 75 80
 Met Pro Asn Leu His Ser Thr Leu Ile Asn Met Ser Arg Ser Gly Ser
 85 90 95
 Leu Thr Asp Thr Thr Ile Lys Lys Lys Lys Ile Pro Lys Met Ile Pro
 100 105 110
 Ile Asp Asn Lys Val Glu Glu Pro Leu Ala His Pro Lys Leu Arg Tyr
 115 120 125
 Lys Val Lys Trp Pro Phe
 130

<210> 3082

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3082

Met Cys Thr Trp Gly Gln Asp Leu Arg Pro Thr Ser Trp Thr Ala Ala
 1 5 10 15
 Ser Thr His Gly Leu Arg Glu Lys Val Pro Cys Cys Arg Leu Trp Gly
 20 25 30
 Thr Ser Ala Leu Thr Val Ala Met Pro Glu Lys Ala Pro Pro Asp Leu
 35 40 45
 Pro Thr Trp Pro Ala Cys Pro Val Arg Arg Ala Gly Trp Gly Trp Cys
 50 55 60
 Trp Leu Gln Met Ile Leu Lys Gly Thr Ala Arg Lys Pro Pro Gly Ala
 65 70 75 80
 Pro Pro Ala Ala Gly Ser Glu Arg Gly Thr Gly Ser Leu Ala Pro Ser
 85 90 95
 Arg Ser Val Ser Thr Arg Ala Thr Pro Val Thr Cys Arg Arg Gly Arg
 100 105 110
 Gln Thr Arg Ser Gly Pro Ala Pro Glu Gly Ala Ser Cys Arg Trp His
 115 120 125
 Lys Gly Val Ile Cys Ile Leu Val Lys Gly Glu Pro Thr Cys Leu Leu
 130 135 140
 Gln Val Gly Asn Thr Pro Trp Arg Pro Trp Cys Gly Ala Ser Thr Arg
 145 150 155 160
 Ala Ser Ser Ser Ser Ser Ala Ala Gly Pro Trp Glu Gly Thr Gly Pro
 165 170 175
 Ala Pro Val Gln Pro Gly
 180

<210> 3083

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3083

Met Glu Glu Gly Asn Pro Phe Ile Arg Leu Pro Lys Thr Ser Val Asp
 1 5 10 15
 Gly Ile Leu Ile Ile Tyr Cys Leu Ser Gln Ile Ser His His Arg Cys

20						25						30					
Leu	Pro	Thr	Val	Ser	His	Leu	Leu	Lys	Phe	Leu	Ser	His	Ser	Phe	Ser		
35					40					45							
Thr	Val	Phe	Phe	Pro	Thr	Thr	Phe	Leu	Pro	Asp	His	Val	Ser	Gly	Pro		
50				55				60									
Leu	Met	Arg	Ser	Lys	Ser	Thr	Arg	Gly	Ser	Lys	Arg	Ile	Leu	Ile	Thr		
65			70			75			80								
Lys	Arg	Ser	Glu	Trp	Pro	Lys	Thr	Leu	Leu	Leu	Ser	His	Gly	Tyr	Cys		
85					90					95							
Asp	Leu	Thr	Phe	Val	Leu	Tyr	Leu	Leu	Ile	Pro	Asp	Cys					
100					105												

<210> 3084

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3084

Met	Arg	Gly	Pro	Gln	Trp	Gly	Ile	Leu	Val	Ile	Leu	Glu	Thr	Gly	Ile
1				5				10						15	
Phe	His	Ser	Cys	Val	Lys	Met	Gln	Leu	Phe	Phe	Cys	Leu	Ile	Val	Arg
			20					25					30		
Thr	His	Asn	Pro	Lys	Leu	Ile	Leu	His	Tyr	Arg	Ile	Leu	Pro	Asp	Phe
			35					40					45		
Ile	Ser	Lys	Asn	Pro	Trp	Cys	Ser	Ile	Ser	Phe	Ser	Ser	Leu	His	Pro
			50					55				60			
Ile	Gln	Ser	Cys	Gly	Ile	Gly	Lys	Cys	Ser	Cys	His	Gly	Val	Glu	Lys
65					70					75					80
Pro	Glu	Val	Cys	Gln	Ala	Leu	Glu	Ala	Pro	Arg	Ser	Thr	Met	Pro	Lys
				85						90					95
Val	Thr	Asn	Phe	Pro	Glu	Val	Ala	Glu							
			100					105							

<210> 3085

<211> 784

<212> PRT

<213> Homo sapiens

<400> 3085

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Met Thr Ile Val Pro Thr Thr Asp Ile Glu Pro Val Thr Val Arg Thr
  1             5             10             15
Glu Ala Thr Val Thr Thr Leu Ala Pro Lys Thr Ser Gln Arg Thr Arg
      20             25             30
Thr Arg Arg Pro Arg Pro Lys His Lys Thr Thr Pro Arg Pro Glu Thr
      35             40             45
Leu Gln Thr Lys Leu Asp Phe Gly Pro Ile Thr Pro Gly Thr Ser Ser
      50             55             60
Ala Pro Thr Thr Thr Thr Lys Arg Thr Arg Arg Pro His Pro Lys Pro
      65             70             75             80
Lys Thr Thr Pro His Pro Glu Val Pro Gln Thr Lys Leu Ala Pro Lys
      85             90             95
Val Pro Gln Arg Thr His Arg Pro His Pro Lys Pro Lys Thr Thr Leu
      100            105            110
Ser Pro Glu Glu Leu Gln Thr Glu Leu Val Pro Val Thr Asp Leu Gly
      115            120            125
Pro Val Thr Phe Arg Thr Glu Ile Pro Ala Thr Thr Leu Ala Thr Lys
      130            135            140
Thr Ser Lys Arg Thr Arg Pro Pro Arg Pro Arg Pro Lys Thr Thr Pro
      145            150            155            160
Ser Pro Gln Ala Pro Glu Thr Lys Pro Val Pro Ala Thr Val Leu Glu
      165            170            175
Pro Val Thr Leu Arg Pro Glu Ala Ser Thr Thr Leu Ala Ser Lys Thr
      180            185            190
Ser Gln Arg Thr Arg Arg Pro Arg Leu Arg Thr Lys Thr Thr Pro Arg
      195            200            205
Pro Glu Ala Pro Glu Ser Lys Pro Ala Pro Lys Gln Thr Pro Arg Ala
      210            215            220
Pro Pro Lys Pro Lys Thr Ser Pro Arg Pro Arg Ile Pro Gln Thr Gln
      225            230            235            240
Pro Val Pro Lys Val Pro Gln Arg Val Thr Ala Lys Pro Lys Thr Ser

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	245		250		255
Pro Ser Pro Glu Val Ser Tyr Thr Thr		Pro Ala Pro Lys Asp Val Leu			
	260		265		270
Leu Pro His Lys Pro Tyr Pro Glu Val Ser Gln Ser Glu Pro Ala Pro					
	275		280		285
Leu Glu Thr Arg Gly Ile Pro Phe Ile Pro Met Ile Ser Pro Ser Pro					
	290		295		300
Ser Gln Glu Glu Leu Gln Thr Thr Leu Glu Glu Thr Asp Gln Ser Thr					
305		310		315	320
Gln Glu Pro Phe Thr Thr Lys Ile Pro Arg Thr Thr Glu Leu Ala Lys					
	325		330		335
Thr Thr Gln Ala Pro His Arg Phe Tyr Thr Thr Val Arg Pro Arg Thr					
	340		345		350
Ser Asp Lys Pro His Ile Arg Pro Val Leu Asn Arg Thr Thr Thr Arg					
	355		360		365
Pro Thr Arg Pro Lys Pro Ser Gly Met Pro Ser Gly Asn Gly Val Gly					
	370		375		380
Thr Gly Val Lys Gln Ala Pro Arg Pro Ser Gly Ala Asp Arg Asn Val					
385		390		395	400
Ser Val Asp Ser Thr His Pro Thr Lys Lys Pro Gly Thr Arg Arg Pro					
	405		410		415
Pro Leu Pro Pro Arg Pro Thr His Pro Arg Arg Lys Pro Leu Pro Pro					
	420		425		430
Asn Asn Val Thr Gly Lys Pro Gly Ser Ala Gly Ile Ile Ser Ser Gly					
	435		440		445
Pro Ile Thr Thr Pro Pro Leu Arg Ser Thr Pro Arg Pro Thr Gly Thr					
	450		455		460
Pro Leu Glu Arg Ile Glu Thr Asp Ile Lys Gln Pro Thr Val Pro Ala					
465		470		475	480
Ser Gly Glu Glu Leu Glu Asn Ile Thr Asp Phe Ser Ser Ser Pro Thr					
	485		490		495
Arg Glu Thr Asp Pro Leu Gly Lys Pro Arg Phe Lys Gly Pro His Val					
	500		505		510
Arg Tyr Ile Gln Lys Pro Asp Asn Ser Pro Cys Ser Ile Thr Asp Ser					
	515		520		525
Val Lys Arg Phe Pro Lys Glu Glu Ala Thr Glu Gly Asn Ala Thr Ser					

530	535	540	
Pro Pro Gln Asn Pro Pro Thr Asn Leu Thr Val Val Thr Val Glu Gly			
545	550	555	560
Cys Pro Ser Phe Val Ile Leu Asp Trp Glu Lys Pro Leu Asn Asp Thr			
	565	570	575
Val Thr Glu Tyr Glu Val Ile Ser Arg Glu Asn Gly Ser Phe Ser Gly			
	580	585	590
Lys Asn Lys Ser Ile Gln Met Thr Asn Gln Thr Phe Ser Thr Val Glu			
	595	600	605
Asn Leu Lys Pro Asn Thr Ser Tyr Glu Phe Gln Val Lys Pro Lys Asn			
	610	615	620
Pro Leu Gly Glu Gly Pro Val Ser Asn Thr Val Ala Phe Ser Thr Glu			
625	630	635	640
Ser Ala Asp Pro Arg Val Ser Glu Pro Val Ser Ala Gly Arg Asp Ala			
	645	650	655
Ile Trp Thr Glu Arg Pro Phe Asn Ser Asp Ser Tyr Ser Glu Cys Lys			
	660	665	670
Gly Lys Gln Tyr Val Lys Arg Thr Trp Tyr Lys Lys Phe Val Gly Val			
	675	680	685
Gln Leu Cys Asn Ser Leu Arg Tyr Lys Ile Tyr Leu Ser Asp Ser Leu			
	690	695	700
Thr Gly Lys Phe Tyr Asn Ile Gly Asp Gln Arg Gly His Gly Glu Asp			
705	710	715	720
His Cys Gln Phe Val Asp Ser Phe Leu Asp Gly Arg Thr Gly Gln Gln			
	725	730	735
Leu Thr Ser Asp Gln Leu Pro Ile Lys Glu Gly Tyr Phe Arg Ala Val			
	740	745	750
Arg Gln Glu Pro Val Gln Phe Gly Glu Ile Gly Gly His Thr Gln Ile			
	755	760	765
Asn Tyr Val Gln Trp Tyr Glu Cys Gly Thr Thr Ile Pro Gly Lys Trp			
770	775	780	

<210> 3086

<211> 391

<212> PRT

<213> Homo sapiens

<400> 3086

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Met Ala Gly Val Gly Ala Gly Pro Leu Arg Ala Met Gly Arg Gln Ala
  1             5             10             15
Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala Gln Gly Leu Tyr Phe
      20             25             30
His Ile Gly Glu Thr Glu Lys Arg Cys Phe Ile Glu Glu Ile Pro Asp
      35             40             45
Glu Thr Met Met Trp Asp Lys Gln Lys Glu Val Phe Leu Pro Ser Thr
      50             55             60
Pro Gly Leu Gly Met His Val Glu Val Lys Asp Pro Asp Gly Lys Val
      65             70             75             80
Val Leu Ser Arg Gln Tyr Gly Ser Glu Gly Arg Phe Thr Phe Thr Ser
      85             90             95
His Thr Pro Gly Asp His Gln Ile Cys Leu His Ser Asn Ser Thr Arg
      100            105            110
Met Ala Leu Phe Ala Gly Gly Lys Leu Arg Val His Leu Asp Ile Gln
      115            120            125
Val Gly Glu His Ala Asn Asn Tyr Pro Glu Ile Ala Ala Lys Asp Lys
      130            135            140
Leu Thr Glu Leu Gln Leu Arg Ala Arg Gln Leu Leu Asp Gln Val Glu
      145            150            155            160
Gln Ile Gln Lys Glu Gln Asp Tyr Gln Arg Lys Lys Val His Cys Leu
      165            170            175
Asn Met Asp Ser Leu Ser Phe Gln Leu Gly Leu Tyr Leu Ser Pro His
      180            185            190
Phe Leu Gln Ala Ser Asn Thr Ile Glu Pro Gly Gln Gln Ser Phe Val
      195            200            205
Gln Val Arg Val Ser Pro Ser Val Ser Glu Phe Leu Leu Gln Leu Asp
      210            215            220
Ser Cys His Leu Asp Leu Gly Pro Glu Gly Gly Thr Val Glu Leu Ile
      225            230            235            240
Gln Gly Arg Ala Ala Lys Gly Asn Cys Val Ser Leu Leu Ser Pro Ser
      245            250            255

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Pro Glu Gly Asp Pro Arg Phe Ser Phe Leu Leu His Phe Tyr Thr Val
 260 265 270
 Pro Ile Pro Lys Thr Gly Thr Leu Ser Cys Thr Val Ala Leu Arg Pro
 275 280 285
 Lys Thr Gly Ser Gln Asp Gln Glu Val His Arg Thr Val Phe Met Arg
 290 295 300
 Leu Asn Ile Ile Ser Pro Asp Leu Ser Gly Cys Thr Ser Lys Gly Leu
 305 310 315 320
 Val Leu Pro Ala Val Leu Gly Ile Thr Phe Gly Ala Phe Leu Ile Gly
 325 330 335
 Ala Leu Leu Thr Ala Ala Leu Trp Tyr Ile Tyr Ser His Thr Arg Ser
 340 345 350
 Pro Ser Lys Arg Glu Pro Val Val Ala Val Ala Ala Pro Ala Ser Ser
 355 360 365
 Glu Ser Ser Ser Thr Asn His Ser Ile Gly Ser Thr Gln Ser Thr Pro
 370 375 380
 Cys Ser Thr Ser Ser Met Ala
 385 390

<210> 3087

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3087

Met Arg Lys Arg Glu Asn Leu Gly Asn Gly Ser Thr Glu Arg Ile Ile
 1 5 10 15
 Arg Val Leu Ala Arg His Met Asn Ala Gln Arg Thr Leu Glu Lys Pro
 20 25 30
 Glu Arg Val Pro Gly Gln His Pro Ala Pro Val Ser His Cys Pro Thr
 35 40 45
 Pro Gly Pro Pro Ser Pro Ala Pro Arg Gly His Arg Gly Phe Leu Ala
 50 55 60
 Leu Leu Ile Ile Ser Ile Phe Met Met Arg Leu Val Asn Lys Thr Arg
 65 70 75 80

Glu Leu Ala Lys His Leu Tyr Leu Ser Arg Ala Arg Ser Ala Glu Gln
 85 90 95
 Arg Ser Val Gly Gly Leu Gly Gly Ala Asn
 100 105

<210> 3088

<211> 285

<212> PRT

<213> Homo sapiens

<400> 3088

Met Leu Glu Ile Lys Met Glu Glu Ala Met Thr Tyr Thr Glu Asp Ser
 1 5 10 15
 Tyr Gly Met Asp Gly Lys Val Asn Gln Pro Arg Leu Thr Ala Asp Ile
 20 25 30
 Asn Trp Gln Gly Leu Glu Glu Leu His Ser Val Asn Glu Asn Ile Tyr
 35 40 45
 Glu Tyr Arg Gln Asn Tyr Arg Leu Ser Leu Val Asp Trp Thr Asn Tyr
 50 55 60
 Leu Lys Asp Leu Asp Arg Val Phe Ala Leu Leu Lys Ser His Tyr Glu
 65 70 75 80
 Gln Asn Lys Thr Asn Lys Thr Gln Thr Ala Gln Ser Asp Gly Phe Leu
 85 90 95
 Val Val Ser Ala Glu His Ala Val Ser Met Glu Met Ala Ser Ala Asp
 100 105 110
 Ser Asp Glu Asp Pro Arg His Lys Val Gly Lys Thr Pro His Leu Thr
 115 120 125
 Leu Pro Ala Asp Leu Gln Thr Leu His Leu Asn Arg Pro Thr Leu Ser
 130 135 140
 Pro Glu Ser Lys Leu Glu Trp Asn Asn Asp Ile Pro Glu Val Asn His
 145 150 155 160
 Leu Asn Ser Glu His Trp Arg Lys Thr Glu Lys Trp Thr Gly His Glu
 165 170 175
 Glu Thr Asn His Leu Glu Thr Asp Phe Ser Gly Asp Gly Met Thr Glu
 180 185 190

Leu Glu Leu Gly Pro Ser Pro Arg Leu Gln Pro Ile His Arg His Pro
 195 200 205
 Lys Glu Leu Pro Gln Tyr Gly Gly Pro Gly Lys Asp Ile Phe Glu Asp
 210 215 220
 Gln Leu Tyr Leu Pro Val His Ser Asp Gly Ile Ser Val His Gln Met
 225 230 235 240
 Phe Thr Met Ala Thr Ala Glu His Arg Ser Asn Ser Ser Ile Ala Gly
 245 250 255
 Lys Met Leu Thr Lys Val Glu Lys Asn His Glu Lys Glu Lys Ser Gln
 260 265 270
 His Leu Glu Gly Ser Thr Ser Ser Ser Leu Ser Ser Asp
 275 280 285

<210> 3089

<211> 697

<212> PRT

<213> Homo sapiens

<400> 3089

Met Ser Glu Gly Pro Ser Ser Pro Trp Thr Gln Leu Ala Gln Pro Leu
 1 5 10 15
 Gly Pro Pro Cys Gln Asp Thr Gly Pro Thr His Tyr Pro Pro Pro His
 20 25 30
 His Pro Pro Pro His Pro Pro Gln Ala Leu Pro Cys Pro Pro Ala Cys
 35 40 45
 Arg His Pro Glu Lys Gln Gly Ser Tyr Ser Pro Ala Leu Pro Leu Gln
 50 55 60
 Pro Leu Gly Gly His Lys Gly Thr Gly Tyr Gln Ala Gly Gly Leu Gly
 65 70 75 80
 Ser Pro Tyr Leu Arg Gln Gln Ala Ala Gln Ala Pro Tyr Ile Pro Pro
 85 90 95
 Leu Gly Leu Asp Ala Tyr Pro Tyr Pro Ser Ala Pro Leu Pro Ala Pro
 100 105 110
 Ser Pro Gly Leu Lys Leu Glu Pro Pro Leu Thr Pro Arg Cys Pro Leu

115	120	125			
Asp Phe Ala Pro Gln Thr Leu Ser Phe Pro Tyr Ala Arg Asp Asp Leu					
130	135	140			
Ser Leu Tyr Gly Ala Ser Pro Gly Leu Gly Gly Thr Pro Pro Ser Gln					
145	150	155	160		
Asn Asn Val Arg Ala Val Pro Gln Pro Gly Ala Phe Gln Arg Ala Cys					
165	170	175			
Gln Pro Leu Pro Ala Ser Gln Pro Cys Ser Glu Pro Val Arg Pro Ala					
180	185	190			
Gln Glu Ala Glu Glu Lys Thr Trp Leu Pro Ser Cys Arg Lys Glu Lys					
195	200	205			
Leu Gln Pro Arg Leu Ser Glu His Ser Gly Pro Pro Ile Val Ile Arg					
210	215	220			
Asp Ser Pro Val Pro Cys Thr Pro Pro Ala Leu Pro Pro Cys Ala Arg					
225	230	235	240		
Glu Cys Gln Ser Leu Pro Gln Lys Glu Asp Ala Arg Pro Pro Ser Ser					
245	250	255			
Pro Pro Met Pro Val Ile Asp Asn Val Phe Ser Leu Ala Pro Tyr Arg					
260	265	270			
Asp Tyr Leu Asp Val Pro Ala Pro Glu Ala Thr Thr Glu Pro Asp Ser					
275	280	285			
Ala Thr Ala Glu Pro Asp Ser Ala Pro Ala Thr Ser Glu Gly Gln Asp					
290	295	300			
Lys Gly Cys Arg Gly Thr Leu Pro Ala Gln Glu Gly Pro Ser Gly Ser					
305	310	315	320		
Lys Pro Leu Arg Gly Ser Leu Lys Glu Glu Val Ala Leu Asp Leu Ser					
325	330	335			
Val Arg Lys Pro Thr Ala Glu Ala Ser Pro Val Lys Ala Ser Arg Ser					
340	345	350			
Val Glu His Ala Lys Pro Thr Ala Ala Met Asp Val Pro Asp Val Gly					
355	360	365			
Asn Met Val Ser Asp Leu Pro Gly Leu Lys Lys Ile Asp Thr Glu Ala					
370	375	380			
Pro Gly Leu Pro Gly Val Pro Val Thr Thr Asp Ala Met Pro Arg Thr					
385	390	395	400		
Asn Phe His Ser Ser Val Ala Phe Met Phe Arg Lys Phe Lys Ile Leu					

	405	410	415
Arg Pro Ala	Pro Leu Pro Ala Ala Val Val	Pro Ser Thr	Pro Thr Ser
	420	425	430
Ala Pro Ala	Pro Thr Gln Pro Ala Pro Thr	Pro Thr Ser Gly	Pro Ile
	435	440	445
Gly Leu Arg	Ile Leu Ala Gln Gln Pro Leu Ser Val	Thr Cys Phe	Ser
	450	455	460
Leu Ala Leu	Pro Ser Pro Pro Ala Val Ala Val	Ala Ser Pro	Ala Pro
465	470	475	480
Ala Pro Ala	Pro Ser Pro Ala Pro Ala Arg	Ala Gln Ala	Pro Ala Ser
	485	490	495
Ala Arg Asp	Pro Ala Pro Ala Pro Val	Ala Gly	Pro Ala Pro
	500	505	510
Ala Ser Thr	Ser Ala Pro Gly Asp Ser Leu Glu Gln	His Phe Thr	Gly
	515	520	525
Leu His Ala	Ser Leu Cys Asp Ala Ile Ser Gly	Ser Val	Ala His Ser
	530	535	540
Pro Pro Glu	Lys Leu Arg Glu Trp Leu Glu Thr	Ala Gly	Pro Trp Gly
545	550	555	560
Gln Ala Ala	Trp Gln Asp Cys Gln Gly Val Gln Gly	Leu Leu	Ala Lys
	565	570	575
Leu Leu Ser	Gln Leu Gln Arg Phe Asp Arg Thr	His Arg Cys	Pro Phe
	580	585	590
Pro His Val	Val Arg Ala Gly Ala Ile Phe Val	Pro Ile His	Leu Val
	595	600	605
Lys Glu Arg	Leu Phe Pro Arg Leu Pro Pro Ala	Ser Val Asp	His Val
	610	615	620
Leu Gln Glu	His Arg Val Glu Leu Arg Pro Thr Thr	Leu Ser Glu	Glu
625	630	635	640
Arg Ala Leu	Arg Glu Leu Ala Leu Pro Gly Cys Thr	Ser Arg Met	Leu
	645	650	655
Lys Leu Leu	Ala Leu Arg Gln Leu Pro Asp Ile Tyr	Pro Asp	Leu Leu
	660	665	670
Gly Leu Gln	Trp Arg Asp Cys Val Arg Arg Gln	Leu Gly Glu	His Gly
	675	680	685
Ala Ala Pro	Val Ala Thr Gly	Ala Val	

690

695

<210> 3090

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3090

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Met Cys Lys Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala
  1             5             10             15
Gln Val Val Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala
      20             25             30
Ile Gly Asp Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile
      35             40             45
Gly Val Gly Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser
      50             55             60
Asp Tyr Ser Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val
      65             70             75             80
His Gly Arg Trp Ser Tyr Phe Arg Ile Cys Lys Phe Leu Cys Tyr Phe
      85             90             95
Phe Tyr Lys Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe
      100            105            110
Phe Cys Gly Phe Ser Ala Gln Thr Val Tyr Asp His Trp Phe Ile Thr
      115            120            125
Leu Phe Asn Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile
      130            135            140
Phe Asp Gln Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu
      145            150            155            160
Tyr Lys Pro Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe
      165            170            175
Ile Cys Val Leu His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile
      180            185            190
Pro Tyr Gly Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile
      195            200            205
Ala Asp Tyr Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile

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210				215				220							
Val	Val	Ser	Val	Gln	Ile	Ala	Leu	Asp	Thr	Ser	Tyr	Trp	Thr	Phe	Ile
225				230				235				240			
Asn	His	Val	Phe	Ile	Trp	Gly	Ser	Ile	Ala	Ile	Tyr	Phe	Ser	Ile	Leu
245				250				255							
Phe	Thr	Met	His	Ser	Asn	Gly	Ile	Phe	Gly	Ile	Phe	Pro	Asn	Gln	Phe
260				265				270							
Pro	Phe	Val	Gly	Asn	Ala	Arg	His	Ser	Leu	Thr	Gln	Lys	Cys	Ile	Trp
275				280				285							
Leu	Val	Ile	Leu	Leu	Thr	Thr	Val	Ala	Ser	Val	Met	Pro	Val	Val	Ala
290				295				300							
Phe	Arg	Phe	Leu	Lys	Val	Asp	Leu	Tyr	Pro	Thr	Leu	Ser	Asp	Gln	Ile
305				310				315				320			
Arg	Arg	Trp	Gln	Lys	Ala	Gln	Lys	Lys	Ala	Arg	Pro	Pro	Ser	Ser	Arg
325				330				335							
Arg	Pro	Arg	Thr	Arg	Arg	Ser	Ser	Ser	Arg	Arg	Ser	Gly	Tyr	Ala	Phe
340				345				350							
Ala	His	Gln	Glu	Gly	Tyr	Gly	Glu	Leu	Ile	Thr	Ser	Gly	Lys	Asn	Met
355				360				365							
Arg	Ala	Lys	Asn	Pro	Pro	Pro	Thr	Ser	Gly	Leu	Glu	Lys	Thr	His	Tyr
370				375				380							
Asn	Ser	Thr	Ser	Trp	Ile	Glu	Asn	Leu	Cys	Lys	Lys	Thr	Thr	Asp	Thr
385				390				395				400			
Val	Ser	Ser	Phe	Ser	Gln	Asp	Lys	Thr	Val	Lys	Leu				
405				410											

<210> 3091

<211> 655

<212> PRT

<213> Homo sapiens

<400> 3091

Met Thr Glu Ser Leu Pro Val Ser Asp Val Leu Glu Ser Val Thr Leu
1 5 10 15
Ser Thr Glu Ser Pro Lys Glu Thr Ile Ala Pro Ala Lys Thr Asp Tyr

	20		25		30
Val Tyr Pro Thr Ala Lys Ala Pro Leu Trp Pro Glu Glu Pro Lys Thr					
	35		40		45
Glu Val Val Glu Ser Ile Thr Tyr Val Ser Glu Pro Pro Glu Thr Thr					
	50		55		60
Leu Glu Thr Ser Pro Leu Pro Ser Gln Ser Ile Thr Leu Pro Ser Pro					
65		70		75	80
Asp Glu Pro Gln Thr Glu Pro Ala Pro Lys Gln Thr Pro Arg Ala Pro					
	85		90		95
Pro Lys Pro Lys Thr Ser Pro Arg Pro Arg Ile Pro Gln Thr Gln Pro					
	100		105		110
Val Pro Lys Val Pro Gln Arg Val Thr Ala Lys Pro Lys Thr Ser Pro					
	115		120		125
Ser Pro Glu Val Ser Tyr Thr Thr Pro Ala Pro Lys Asp Val Leu Leu					
	130		135		140
Pro His Lys Pro Tyr Pro Glu Val Ser Gln Ser Glu Pro Ala Pro Leu					
145		150		155	160
Glu Thr Arg Gly Ile Pro Phe Ile Pro Met Ile Ser Pro Ser Pro Ser					
	165		170		175
Gln Glu Glu Leu Gln Thr Thr Leu Glu Glu Thr Asp Gln Ser Thr Gln					
	180		185		190
Glu Pro Phe Thr Thr Lys Ile Pro Arg Thr Thr Glu Leu Ala Lys Thr					
	195		200		205
Thr Gln Ala Pro His Arg Phe Tyr Thr Thr Val Arg Pro Arg Thr Ser					
	210		215		220
Asp Lys Pro His Ile Arg Pro Val Leu Asn Arg Thr Thr Thr Arg Pro					
225		230		235	240
Thr Arg Pro Lys Pro Ser Gly Met Pro Ser Gly Asn Gly Val Gly Thr					
	245		250		255
Gly Val Lys Gln Ala Pro Arg Pro Ser Gly Ala Asp Arg Asn Val Ser					
	260		265		270
Val Asp Ser Thr His Pro Thr Lys Lys Pro Gly Thr Arg Arg Pro Pro					
	275		280		285
Leu Pro Pro Arg Pro Thr His Pro Arg Arg Lys Pro Leu Pro Pro Asn					
	290		295		300
Asn Val Thr Gly Lys Pro Gly Ser Ala Gly Ile Ile Ser Ser Gly Pro					

305	310	315	320
Ile Thr Thr Pro Pro Leu Arg Ser Thr Pro Arg Pro Thr Gly Thr Pro			
325	330	335	
Leu Glu Arg Ile Glu Thr Asp Ile Lys Gln Pro Thr Val Pro Ala Ser			
340	345	350	
Gly Glu Glu Leu Glu Asn Ile Thr Asp Phe Ser Ser Ser Pro Thr Arg			
355	360	365	
Glu Thr Asp Pro Leu Gly Lys Pro Arg Phe Lys Gly Pro His Val Arg			
370	375	380	
Tyr Ile Gln Lys Pro Asp Asn Ser Pro Cys Ser Ile Thr Asp Ser Val			
385	390	395	400
Lys Arg Phe Pro Lys Glu Glu Ala Thr Glu Gly Asn Ala Thr Ser Pro			
405	410	415	
Pro Gln Asn Pro Pro Thr Asn Leu Thr Val Val Thr Val Glu Gly Cys			
420	425	430	
Pro Ser Phe Val Ile Leu Asp Trp Glu Lys Pro Leu Asn Asp Thr Val			
435	440	445	
Thr Glu Tyr Glu Val Ile Ser Arg Glu Asn Gly Ser Phe Ser Gly Lys			
450	455	460	
Asn Lys Ser Ile Gln Met Thr Asn Gln Thr Phe Ser Thr Val Glu Asn			
465	470	475	480
Leu Lys Pro Asn Thr Ser Tyr Glu Phe Gln Val Lys Pro Lys Asn Pro			
485	490	495	
Leu Gly Glu Gly Pro Val Ser Asn Thr Val Ala Phe Ser Thr Glu Ser			
500	505	510	
Ala Asp Pro Arg Val Ser Glu Pro Val Ser Ala Gly Arg Asp Ala Ile			
515	520	525	
Trp Thr Glu Arg Pro Phe Asn Ser Asp Ser Tyr Ser Glu Cys Lys Gly			
530	535	540	
Lys Gln Tyr Val Lys Arg Thr Trp Tyr Lys Lys Phe Val Gly Val Gln			
545	550	555	560
Leu Cys Asn Ser Leu Arg Tyr Lys Ile Tyr Leu Ser Asp Ser Leu Thr			
565	570	575	
Gly Lys Phe Tyr Asn Ile Gly Asp Gln Arg Gly His Gly Glu Asp His			
580	585	590	

Cys Gln Phe Val Asp Ser Phe Leu Asp Gly Arg Thr Gly Gln Gln Leu
 595 600 605
 Thr Ser Asp Gln Leu Pro Ile Lys Glu Gly Tyr Phe Arg Ala Val Arg
 610 615 620
 Gln Glu Pro Val Gln Phe Gly Glu Ile Gly Gly His Thr Gln Ile Asn
 625 630 635 640
 Tyr Val Gln Trp Tyr Glu Cys Gly Thr Thr Ile Pro Gly Lys Trp
 645 650 655

<210> 3092

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3092

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
 1 5 10 15
 Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
 20 25 30
 Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
 35 40 45
 Phe Met Val Pro Gly Tyr Leu Leu Val Lys Ala Cys Val Phe Gly Asn
 50 55 60
 Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro Arg Thr Glu Ala
 65 70 75 80
 Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu Leu Phe Cys Ala
 85 90 95
 Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val Leu Gln Glu Arg
 100 105 110
 Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser Pro Gly Glu Arg
 115 120 125
 Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg Val Leu Ala Leu
 130 135 140
 Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln Pro Arg His Gly
 145 150 155 160

Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser Asn Val Leu Ser
 165 170 175
 Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser Phe Pro Thr Gln
 180 185 190
 Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met Leu Met Gly Lys
 195 200 205
 Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr Leu Thr Ala Thr
 210 215 220
 Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser Ser Gly Pro Glu
 225 230 235 240
 Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu Ile Leu Leu Ala
 245 250 255
 Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp Gln Asp Ala Leu
 260 265 270
 Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe Gly Val Asn Phe
 275 280 285
 Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu Gln Gly Ala Leu
 290 295 300
 Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu Phe Ala Ala His
 305 310 315 320
 Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln Leu Phe Ile Phe
 325 330 335
 Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr Ile Ile Met Thr
 340 345 350
 Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu Leu Tyr Gly His
 355 360 365
 Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val Val Phe Ala Ala
 370 375 380
 Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys Gln Arg Gly Lys
 385 390 395 400
 Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
 405 410

<210> 3093

<211> 474

<212> PRT

<213> Homo sapiens

<400> 3093

```

Met Ile Val Lys Asn Val Gly Val Leu Leu Ile Met Ser Ile Ser Leu
  1             5             10             15
Leu Ser Ile Arg Lys Phe Ile Leu Val Lys Asn Pro Val Asn Val Arg
      20             25             30
Asn Val Gly Lys Phe Leu Val Ile Ala Ile Asn Leu Leu Cys Ile Arg
      35             40             45
Asp Phe Ile Leu Val Arg Asn Pro Met Asn Val Lys Asn Val Gly Arg
      50             55             60
Pro Leu Leu Phe Thr His Asn Leu Ile Asp Ile Arg Lys Phe Thr Leu
      65             70             75             80
Val Lys Asn Pro Ile Cys Val Arg Asn Val Ile Arg Val Phe Phe Ser
      85             90             95
Arg Leu Glu Leu Thr Gln His Lys Arg Ile His Thr Gly Lys Lys Ser
      100            105            110
Tyr Glu Cys Lys Glu Cys Gly Lys Val Phe Gln Leu Ile Phe Tyr Phe
      115            120            125
Lys Glu His Glu Arg Ile His Thr Gly Lys Lys Pro Tyr Glu Cys Lys
      130            135            140
Glu Cys Gly Lys Ala Phe Ser Val Cys Gly Gln Leu Thr Arg His Gln
      145            150            155            160
Lys Ile His Thr Gly Val Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys
      165            170            175
Thr Phe Arg Leu Ser Phe Tyr Leu Thr Glu His Arg Arg Thr His Ala
      180            185            190
Gly Lys Lys Pro Tyr Glu Cys Lys Glu Cys Gly Glu Ser Phe Asn Val
      195            200            205
Arg Gly Gln Leu Asn Arg His Lys Thr Ile His Thr Gly Ile Lys Pro
      210            215            220
Phe Ala Cys Lys Val Cys Glu Lys Ala Phe Ser Tyr Ser Gly Asp Leu
      225            230            235            240
Arg Val His Ser Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys
      245            250            255

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Glu Cys Gly Lys Ala Phe Met Leu Arg Ser Val Leu Thr Glu His Gln
 260 265 270
 Arg Leu His Thr Gly Val Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys
 275 280 285
 Thr Phe Arg Val Arg Ser Gln Ile Ser Leu His Lys Lys Ile His Thr
 290 295 300
 Asp Val Lys Pro Tyr Lys Cys Val Arg Cys Gly Lys Thr Phe Arg Phe
 305 310 315 320
 Gly Phe Tyr Leu Thr Glu His Gln Arg Ile His Thr Gly Glu Lys Pro
 325 330 335
 Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Arg Arg Gly Asn Leu
 340 345 350
 Lys Glu His Leu Lys Ile His Ser Gly Leu Lys Pro Tyr Asp Cys Lys
 355 360 365
 Glu Cys Gly Lys Ser Phe Ser Arg Arg Gly Gln Phe Thr Glu His Gln
 370 375 380
 Lys Ile His Thr Gly Val Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys
 385 390 395 400
 Ala Phe Ser Arg Ser Val Asp Leu Arg Ile His Gln Arg Ile His Thr
 405 410 415
 Gly Glu Lys Pro Tyr Glu Cys Lys Gln Cys Gly Lys Ala Phe Arg Leu
 420 425 430
 Asn Ser His Leu Thr Glu His Gln Arg Ile His Thr Gly Glu Lys Pro
 435 440 445
 Tyr Glu Cys Lys Val Cys Arg Lys Ala Phe Arg Gln Tyr Ser His Leu
 450 455 460
 Tyr Gln His Gln Lys Thr His Asn Val Ile
 465 470

<210> 3094

<211> 237

<212> PRT

<213> Homo sapiens

<400> 3094

Met Glu Pro Gln Asp Phe Ser Phe Pro Gly Tyr Pro Leu Pro Ala Leu
 1 5 10 15
 Ile Pro Ser Pro Pro Pro Pro Pro Leu Gly Thr Ser Pro Pro Leu Thr
 20 25 30
 Pro Arg Ser Pro Ser His Ser Gly Glu Pro Phe Gly Leu Pro Gly Leu
 35 40 45
 Glu Pro Glu Pro Gly Gly Pro Gln Ala Gly Glu Pro Pro Pro Pro Leu
 50 55 60
 Ala Gly Asp Lys Pro His Lys Cys Pro Glu Cys Gly Lys Gly Phe Arg
 65 70 75 80
 Arg Ser Ser Asp Leu Val Lys His His Arg Val His Thr Gly Glu Lys
 85 90 95
 Pro Tyr Leu Cys Pro Glu Cys Gly Lys Gly Phe Ala Asp Ser Ser Ala
 100 105 110
 Arg Val Lys His Leu Arg Thr His Arg Gly Glu Arg Ala Arg Pro Pro
 115 120 125
 Pro Pro Ser Thr Leu Leu Arg Pro His Asn Pro Pro Gly Pro Val Pro
 130 135 140
 Met Ala Pro Arg Pro Arg Val Arg Ala Gln Pro Ser Gly Pro Ser Gln
 145 150 155 160
 Pro His Val Cys Gly Phe Cys Gly Lys Glu Phe Pro Arg Ser Ser Asp
 165 170 175
 Leu Val Lys His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys
 180 185 190
 Ala Glu Cys Gly Lys Gly Phe Gly Asp Ser Ser Ala Arg Ile Lys His
 195 200 205
 Gln Arg Gly His Leu Val Leu Thr Pro Phe Gly Ile Gly Asp Gly Arg
 210 215 220
 Ala Arg Pro Leu Lys Gln Glu Ala Ala Thr Gly Leu Glu
 225 230 235

<210> 3095

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3095

Met Pro Arg Pro Arg Arg Val Ser Gln Leu Leu Asp Leu Cys Leu Trp
 1 5 10 15
 Cys Phe Met Lys Asn Ile Ser Arg Tyr Leu Thr Asp Ile Lys Pro Leu
 20 25 30
 Pro Pro Asn Ile Lys Asp Arg Leu Ile Lys Ile Met Ser Met Gln Gly
 35 40 45
 Gln Ile Thr Asp Ser Asn Ile Ser Glu Ile Leu His Pro Glu Val Gln
 50 55 60
 Thr Leu Asp Leu Arg Ser Cys Asp Ile Ser Asp Ala Ala Leu Leu His
 65 70 75 80
 Leu Ser Asn Cys Arg Lys Leu Lys Lys Leu Asn Leu Asn Ala Ser Lys
 85 90 95
 Gly Asn Arg Val Ser Val Thr Ser Glu Gly Ile Lys Ala Val Ala Ser
 100 105 110
 Ser Cys Ser Tyr Leu His Glu Ala Ser Leu Lys Arg Cys Cys Asn Leu
 115 120 125
 Thr Asp Glu Gly Val Val Ala Leu Ala Leu Asn Cys Gln Leu Leu Lys
 130 135 140
 Ile Ile Asp Leu Gly Gly Cys Leu Ser Ile Thr Asp Val Ser Leu His
 145 150 155 160
 Ala Leu Gly Lys Asn Cys Pro Phe Leu Gln Cys Val Asp Phe Ser Ala
 165 170 175
 Thr Gln Val Ser Asp Ser Gly Val Ile Ala Leu Val Ser Gly Pro Cys
 180 185 190
 Ala Lys Lys Leu Glu Glu Ile His Met Gly His Cys Val Asn Leu Thr
 195 200 205
 Asp Gly Ala Val Glu Ala Val Leu Thr Tyr Cys Pro Gln Ile Arg Ile
 210 215 220
 Leu Leu Phe His Gly Cys Pro Leu Ile Thr Asp His Ser Arg Glu Val
 225 230 235 240
 Leu Glu Gln Leu Val Gly Pro Asn Lys Leu Lys Gln Val Thr Trp Thr
 245 250 255
 Val Tyr

<210> 3096

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3096

```

Met Ser Ser Thr Trp Val Thr Asn His Ser Glu Ile Leu Asn Thr Tyr
  1              5              10              15
Pro Leu Gly Ala Gly Gly Gly Asn Asp Val Gln Tyr Leu Lys Gln Asn
              20              25              30
Leu Thr Trp Thr Glu Arg Leu Tyr Phe Pro Leu Leu His Glu Ser Leu
              35              40              45
Ile Ile Leu Gly Gly Leu Leu Cys Ile Pro Pro Phe Leu Leu Ser Pro
              50              55              60
Pro Leu Pro Phe Val Phe Ser Lys Glu Ser Glu Leu Arg Phe Pro Cys
              65              70              75              80
Ser Pro Ala Thr Leu Ile Ser Lys Thr Cys Leu Cys Val Arg Phe Phe
              85              90              95
Thr Gly Asn Met Thr Phe Cys Phe Cys Ile Gly Phe Thr Val Ile Gln
              100             105             110
Phe Ser Ser Leu Ile Ser Ser Lys Thr Lys Ser Glu Cys Thr Arg Phe
              115             120             125
Phe Arg
      130

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<210> 3097

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3097

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Met Gln Leu Leu Lys Ala Leu Trp Ala Leu Ala Gly Ala Ala Leu Cys

```

1	5	10	15
Cys Phe Leu Val	Leu Val Ile His Ala Gln Phe	Leu Lys Glu Gly Gln	
20	25	30	
Leu Ala Ala Gly Thr Cys Glu Ile	Val Thr Leu Asp Arg Asp Ser Ser		
35	40	45	
Gln Pro Arg Arg Thr Ile Ala Arg Gln Thr	Ala Arg Cys Ala Cys Arg		
50	55	60	
Lys Gly Gln Ile Ala Gly Thr Thr Arg Ala	Arg Pro Ala Cys Val Asp		
65	70	75	80
Ala Arg Ile Ile Lys Thr Lys Gln Trp Cys Asp	Met Leu Pro Cys Leu		
85	90	95	
Glu Gly Glu Gly Cys Asp Leu Leu Ile Asn Arg	Ser Gly Trp Thr Cys		
100	105	110	
Thr Gln Pro Gly Gly Arg Ile Lys Thr Thr Thr	Val Ser		
115	120	125	

<210> 3098

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3098

Met Gly His Thr Leu Ser Ser Lys Cys Gly Pro Ala Pro Arg Thr Pro			
1	5	10	15
Pro Arg Gly Leu Ala Pro Val Pro Arg Leu Leu Gly Asn Pro Ser Thr			
20	25	30	
Leu Arg Val Gly Glu Val Thr Pro Lys Leu Leu Leu Ser Gly Asp Phe			
35	40	45	
Arg Thr Gln Arg Arg Pro Arg Ser Cys Gln Ala Phe Gln Gly Gln His			
50	55	60	
Pro Pro Pro Val Arg Ser Leu Ser Ser Gly Pro Pro Arg Ala Pro Arg			
65	70	75	80
Leu Ser Pro Ala Gly Ala Ser Pro Gly Pro Gln Ser Ala Ser Ser Arg			
85	90	95	
Gly Gln Arg Ala Ser Ser Pro Ala Arg Ser Gly Arg Ala Ser Arg Pro			

100 105 110
 Thr Ser Pro Ala Glu Ser Thr Ala Pro Pro Arg Ser Pro Arg Thr Ser
 115 120 125
 Ser Arg Val Gly Ser Gly Ser Arg Val Gly Thr Arg Gly Pro Leu Ala
 130 135 140
 His Arg Tyr Pro His Arg Arg Arg Pro Pro Pro Pro Phe Val Ala
 145 150 155 160
 Lys His Ser Cys Ser Ser Phe Ser Cys Leu Pro Gln Lys Ala Ala Pro
 165 170 175
 Asn Leu Ala Arg Ser Trp Gly Leu Pro Gly Ser Arg Thr Ala Arg Leu
 180 185 190
 Ser Gln Gly Pro Asp Arg Gly Pro Arg Gly Val Cys Arg Leu Gly Ser
 195 200 205
 Gly Ala Ala Glu Pro Ser Gln Arg Arg Gly Lys Pro Ser Arg Gly Thr
 210 215 220
 His Arg Pro Glu Pro Arg Ala Gly Gly Arg Leu Ser Pro Ala Glu Arg
 225 230 235 240
 Ser Pro Glu Thr Glu His Ala Gln Cys Gly Arg Arg Gly Ser Leu Arg
 245 250 255
 Asn Asp

<210> 3099

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3099

Met Asp Phe Ser Glu Ser Glu Lys Phe Met Val Leu Leu Trp Lys Asn
 1 5 10 15
 Phe Ile Leu Lys Arg Arg Arg Cys Ile Ala Leu Val Val Glu Met Val
 20 25 30
 Leu Thr Phe Leu Phe Ser Ala Ala Leu Leu Ala Thr Arg Ser Val Ile
 35 40 45
 Thr Ile Asn Lys Asn Gly Pro Phe Asp Phe Ala Ala Gln Pro Val Asp

50 55 60
 Glu Val Pro Phe Tyr Ile Thr Ala Ser Leu Ile Ser Pro Ser Pro Leu
 65 70 75 80
 Glu Leu Ala Tyr Val Pro Ser Arg Ser Thr Val Val Gln Gly Ile Ile
 85 90 95
 Glu Arg Val Lys Met Asp Leu Asn Pro Gln Met Lys Gly
 100 105

<210> 3100

<211> 228

<212> PRT

<213> Homo sapiens

<400> 3100

Met Glu Glu Gln Pro Gln Met Gln Asp Ala Asp Glu Pro Ala Asp Ser
 1 5 10 15
 Gly Gly Glu Gly Arg Ala Gly Gly Pro Pro Gln Val Ala Gly Ala Gln
 20 25 30
 Ala Ala Cys Ser Glu Asp Arg Met Thr Leu Leu Leu Arg Leu Arg Ala
 35 40 45
 Gln Thr Lys Gln Gln Leu Leu Glu Tyr Lys Ser Met Val Asp Ala Ser
 50 55 60
 Glu Glu Lys Thr Pro Glu Gln Ile Met Gln Glu Lys Gln Ile Glu Ala
 65 70 75 80
 Lys Ile Glu Asp Leu Glu Asn Glu Ile Glu Glu Val Lys Val Ala Phe
 85 90 95
 Glu Ile Lys Lys Leu Ala Leu Asp Ser Val Leu Met Asp Asn Met Lys
 100 105 110
 His Leu Leu Glu Leu Asn Lys Leu Ile Met Lys Ser Gln Gln Glu Ser
 115 120 125
 Trp Asp Leu Glu Glu Lys Leu Leu Asp Ile Arg Lys Lys Arg Leu Gln
 130 135 140
 Leu Lys Gln Ala Ser Glu Ser Lys Leu Leu Glu Ile Gln Thr Glu Lys
 145 150 155 160
 Asn Lys Gln Lys Ile Asp Leu Asp Ser Met Glu Asn Ser Glu Arg Ile

165 170 175
 Lys Ile Ile Arg Gln Asn Leu Gln Met Glu Ile Lys Ile Thr Thr Val
 180 185 190
 Ile Gln His Val Phe Gln Asn Leu Ile Leu Gly Ser Lys Val Asn Trp
 195 200 205
 Ala Glu Asp Pro Ala Leu Lys Glu Ile Val Leu Gln Leu Glu Lys Asn
 210 215 220
 Val Asp Met Met
 225

<210> 3101

<211> 219

<212> PRT

<213> Homo sapiens

<400> 3101

Met Ile His Phe His Leu Ile Phe Leu Tyr Val Ala Arg Asn Lys Thr
 1 5 10 15
 Leu Gln Met Glu Lys Val Lys Ala Arg Leu Lys Ala Glu Phe Glu Ala
 20 25 30
 Leu Glu Ser Glu Glu Arg His Leu Lys Glu Tyr Lys Gln Glu Thr Asp
 35 40 45
 Leu Leu Leu Gln Glu Lys Met Ala His Val Glu Glu Leu Arg Leu Ile
 50 55 60
 His Ala Asp Ile Asn Val Met Glu Asn Thr Ile Lys Gln Ser Glu Asn
 65 70 75 80
 Asp Leu Asn Lys Leu Leu Glu Ser Thr Arg Arg Leu His Asp Glu Tyr
 85 90 95
 Lys Pro Leu Lys Glu His Val Asp Ala Leu Arg Met Thr Leu Gly Leu
 100 105 110
 Gln Arg Leu Pro Asp Leu Cys Glu Glu Glu Glu Lys Leu Ser Leu Asp
 115 120 125
 Tyr Phe Glu Lys Gln Lys Ala Glu Trp Gln Thr Glu Pro Gln Glu Pro
 130 135 140
 Pro Ile Pro Glu Ser Leu Ala Ala Ala Ala Ala Ala Ala Gln Gln Leu

145 150 155 160
 Gln Val Ala Arg Lys Gln Asp Thr Arg Gln Thr Ala Thr Phe Arg Gln
 165 170 175
 Gln Pro Pro Pro Met Lys Ala Cys Leu Ser Cys His Gln Gln Ile His
 180 185 190
 Arg Asn Ala Pro Ile Cys Pro Leu Cys Lys Ala Lys Ser Arg Ser Arg
 195 200 205
 Asn Pro Lys Lys Pro Lys Arg Lys Gln Asp Glu
 210 215

<210> 3102

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3102

Met Ala Ala Ala Ala Asp Ser Phe Ser Gly Gly Pro Ala Gly Val Arg
 1 5 10 15
 Leu Pro Arg Ser Pro Pro Leu Lys Val Leu Ala Glu Gln Leu Arg Arg
 20 25 30
 Asp Ala Glu Gly Gly Pro Gly Ala Trp Arg Leu Ser Arg Ala Ala Ala
 35 40 45
 Gly Arg Gly Pro Leu Asp Leu Ala Ala Val Trp Met Gln Gly Arg Val
 50 55 60
 Val Met Ala Asp Arg Gly Glu Ala Arg Leu Arg Asp Pro Ser Gly Asp
 65 70 75 80
 Phe Ser Val Arg Gly Leu Glu Arg Val Pro Arg Gly Arg Pro Cys Leu
 85 90 95
 Val Pro Gly Lys Tyr Val Met Val Met Gly Val Val Gln Ala Cys Ser
 100 105 110
 Pro Glu Pro Cys Leu Gln Ala Val Lys Met Thr Asp Leu Ser Asp Asn
 115 120 125
 Pro Ile His Glu Ser Met Trp Glu Leu Glu Val Glu Asp Leu His Arg
 130 135 140
 Asn Ile Pro

145

<210> 3103

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3103

```

Met Ile Asp Asp Pro Ser Lys Gly Lys Glu Ala Leu Ala Glu Ser Gly
  1             5             10             15
Gly Leu Val Gly Ala Gly Asn Gly Val Phe Phe Pro Ser Thr Glu Ala
          20             25             30
Phe Trp Asp Gly Gly Ala Val Leu Ala Ser Arg Gly Leu Glu Leu Ala
          35             40             45
Gly Ser Ser Val Pro Cys Cys Glu Arg Phe Gln Asp Phe Asp Leu Ala
          50             55             60
Gln Pro Ala Ser Leu His Pro Thr Cys Ala Thr Ala Phe Ser Gln Cys
          65             70             75             80
Asp Val Glu Cys Tyr Ser Met Ser Leu Tyr Phe Pro Leu Leu Phe Leu
          85             90             95
Val Met Gly Thr Leu Glu Pro Ser
          100

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<210> 3104

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3104

```

Met Asp Thr Pro Leu Arg Arg Ser Arg Arg Leu Gly Gly Leu Arg Pro
  1             5             10             15
Glu Ser Pro Glu Ser Leu Thr Ser Val Ser Arg Thr Arg Arg Ala Leu
          20             25             30
Val Glu Phe Glu Ser Asn Pro Glu Glu Thr Arg Glu Pro Gly Pro Pro

```

35 40 45
 Pro Ser Val Gln Arg Ala Gly Leu Gly Ser Pro Glu Arg Pro Pro Lys
 50 55 60
 Thr Ser Pro Gly Ser Pro Arg Leu Gln Gln Gly Ala Gly Leu Glu Ser
 65 70 75 80
 Pro Gln Gly Gln Pro Glu Pro Gly Ala Ala Ser Pro Gln Arg Gln Gln
 85 90 95
 Ala Pro Gly Pro Glu Pro Ser Gln Pro Leu Leu Glu Leu Thr Pro Gly
 100 105 110
 Ala Pro Gln His Gln Leu Pro Pro Val Pro Gly Ser Pro Glu Pro Tyr

 115 120 125
 Pro Gly Gln Gln Ala Thr Ser Ser Trp Gly Asp Gly Asp Arg Arg Leu
 130 135 140
 Arg Gly Lys Glu Ala Lys Arg Phe Phe Ile Pro Gly Pro Ser Val Gln
 145 150 155 160
 Glu Val Glu

<210> 3105

<211> 553

<212> PRT

<213> Homo sapiens

<400> 3105

Met Ala Phe Ser Glu Leu Leu Asp Leu Val Gly Gly Leu Gly Arg Phe
 1 5 10 15
 Gln Val Leu Gln Thr Met Ala Leu Met Val Ser Ile Met Trp Leu Cys
 20 25 30
 Thr Gln Ser Met Leu Glu Asn Phe Ser Ala Ala Val Pro Ser His Arg
 35 40 45
 Cys Trp Ala Pro Leu Leu Asp Asn Ser Thr Ala Gln Ala Ser Ile Leu
 50 55 60
 Gly Ser Leu Ser Pro Glu Ala Leu Leu Ala Ile Ser Ile Pro Pro Gly
 65 70 75 80

Pro Asn Gln Arg Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp
 85 90 95
 Gln Leu Leu Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp
 100 105 110
 Thr Glu Pro Cys Val Asp Gly Trp Val Tyr Asp Arg Ser Ile Phe Thr
 115 120 125
 Ser Thr Ile Val Ala Lys Trp Asn Leu Val Cys Asp Ser His Ala Leu
 130 135 140
 Lys Pro Met Ala Gln Ser Ile Tyr Leu Ala Gly Ile Leu Val Gly Ala
 145 150 155 160
 Ala Ala Cys Gly Pro Ala Ser Asp Arg Phe Gly Arg Arg Leu Val Leu
 165 170 175
 Thr Trp Ser Tyr Leu Gln Met Ala Val Met Gly Thr Ala Ala Ala Phe
 180 185 190
 Ala Pro Ala Phe Pro Val Tyr Cys Leu Phe Arg Phe Leu Leu Ala Phe
 195 200 205
 Ala Val Ala Gly Val Met Met Asn Thr Gly Thr Leu Leu Met Glu Trp
 210 215 220
 Thr Ala Ala Arg Ala Arg Pro Leu Val Met Thr Leu Asn Ser Leu Gly
 225 230 235 240
 Phe Ser Phe Gly His Gly Leu Thr Ala Ala Val Ala Tyr Gly Val Arg
 245 250 255
 Asp Trp Thr Leu Leu Gln Leu Val Val Ser Val Pro Phe Phe Leu Cys
 260 265 270
 Phe Leu Tyr Ser Trp Trp Leu Ala Glu Ser Ala Arg Trp Leu Leu Thr
 275 280 285
 Thr Gly Arg Leu Asp Trp Gly Leu Gln Glu Leu Trp Arg Val Ala Ala
 290 295 300
 Ile Asn Gly Lys Gly Ala Val Gln Asp Thr Leu Thr Pro Glu Val Leu
 305 310 315 320
 Leu Ser Ala Met Arg Glu Glu Leu Ser Met Gly Gln Pro Pro Ala Ser
 325 330 335
 Leu Gly Thr Leu Leu Arg Met Pro Gly Leu Arg Phe Arg Thr Cys Ile
 340 345 350
 Ser Thr Leu Cys Trp Phe Ala Phe Gly Phe Thr Phe Phe Gly Leu Ala

355	360	365
Leu Asp Leu Gln Ala Leu Gly Ser Asn Ile Phe Leu Leu Gln Met Phe		
370	375	380
Ile Gly Val Val Asp Ile Pro Ala Lys Met Gly Ala Leu Leu Leu Leu		
385	390	395
Ser His Leu Gly Arg Arg Pro Thr Leu Ala Ala Ser Leu Leu Leu Ala		
405	410	415
Gly Leu Cys Ile Leu Ala Asn Thr Leu Val Pro His Glu Met Gly Ala		
420	425	430
Leu Arg Ser Ala Leu Ala Val Leu Gly Leu Gly Gly Val Gly Ala Ala		
435	440	445
Phe Thr Cys Ile Thr Ile Tyr Ser Ser Glu Leu Phe Pro Thr Val Leu		
450	455	460
Arg Met Thr Ala Val Gly Leu Gly Gln Met Ala Ala Arg Gly Gly Ala		
465	470	475
Ile Leu Gly Pro Leu Val Arg Leu Leu Gly Val His Gly Pro Trp Leu		
485	490	495
Pro Leu Leu Val Tyr Gly Thr Val Pro Val Leu Ser Gly Leu Ala Ala		
500	505	510
Leu Leu Leu Pro Glu Thr Gln Ser Leu Pro Leu Pro Asp Thr Ile Gln		
515	520	525
Asn Val Gln Asn Gln Ala Val Lys Lys Ala Thr His Gly Thr Leu Gly		
530	535	540
Asn Ser Val Leu Lys Ser Thr Gln Phe		
545	550	

<210> 3106

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3106

Met Ala Ala Pro Pro Glu Pro Gly Glu Pro Glu Glu Arg Lys Ser Leu
1 5 10 15
Lys Leu Leu Gly Phe Leu Asp Val Glu Asn Thr Pro Cys Ala Arg His

20 25 30
 Ser Ile Leu Tyr Gly Ser Leu Gly Ser Val Val Ala Gly Phe Gly His
 35 40 45
 Phe Leu Phe Thr Ser Arg Ile Arg Arg Ser Cys Asp Val Gly Val Gly
 50 55 60
 Gly Phe Ile Leu Val Thr Leu Gly Cys Trp Phe His Cys Arg Tyr Asn
 65 70 75 80
 Tyr Ala Lys Gln Arg Ile Gln Glu Arg Ile Ala Arg Glu Glu Ile Lys
 85 90 95
 Lys Lys Ile Leu Tyr Glu Gly Thr His Leu Asp Pro Glu Arg Lys His
 100 105 110
 Asn Gly Ser Ser Ser Asn
 115

<210> 3107

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3107

Met Glu Thr Cys Leu Leu Pro Ala Pro Leu Pro Pro Ser Ala Pro Ala
 1 5 10 15
 Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Arg Ser Ala Pro Ala
 20 25 30
 Pro Leu Pro Pro Ser Ala Pro Ala Pro Leu Pro Arg Ser Ala Pro Ala
 35 40 45
 Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Pro Ser Ala Pro Ala
 50 55 60
 Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Pro Ser Ala Pro Ala
 65 70 75 80
 Pro Leu Pro Arg Ser Ala Pro Ala Pro Leu Pro Arg Ser Val Pro Ala
 85 90 95
 Pro Leu Pro Pro Ser Val Pro Ala Gln Gly Ser Ser Ser Leu Leu Leu
 100 105 110
 Thr Phe

<210> 3108

<211> 483

<212> PRT

<213> Homo sapiens

<400> 3108

```

Met Ser Val Thr Lys Ser Thr Glu Gly Pro Gln Gly Ala Val Ala Ile
  1             5             10            15
Lys Leu Asp Leu Met Ser Pro Pro Glu Ser Ala Lys Lys Leu Glu Asn
      20             25            30
Lys Asp Ser Thr Phe Leu Asp Glu Ser Pro Ser Glu Ser Ala Gly Leu
      35             40            45
Lys Lys Thr Lys Gly Ile Thr Val Phe Gln Ala Leu Ile His Leu Val
      50             55            60
Lys Gly Asn Met Gly Thr Gly Ile Leu Gly Leu Pro Leu Ala Val Lys
      65             70            75            80
Asn Ala Gly Ile Leu Met Gly Pro Leu Ser Leu Leu Val Met Gly Phe
      85             90            95
Ile Ala Cys His Cys Met His Ile Leu Val Lys Cys Ala Gln Arg Phe
      100            105            110
Cys Lys Arg Leu Asn Lys Pro Phe Met Asp Tyr Gly Asp Thr Val Met
      115            120            125
His Gly Leu Glu Ala Asn Pro Asn Ala Trp Leu Gln Asn His Ala His
      130            135            140
Trp Gly Arg His Ile Val Ser Phe Phe Leu Ile Ile Thr Gln Leu Gly
      145            150            155            160
Phe Cys Cys Val Tyr Ile Val Phe Leu Ala Asp Asn Leu Lys Gln Val
      165            170            175
Val Glu Ala Val Asn Ser Thr Thr Asn Asn Cys Tyr Ser Asn Glu Thr
      180            185            190
Val Ile Leu Thr Pro Thr Met Asp Ser Arg Leu Tyr Met Leu Ser Phe
      195            200            205
Leu Pro Phe Leu Val Leu Leu Val Leu Ile Arg Asn Leu Arg Ile Leu

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210	215	220	
Thr Ile Phe Ser Met	Leu Ala Asn Ile Ser	Met Leu Val Ser	Leu Val
225	230	235	240
Ile Ile Ile Gln Tyr	Ile Thr Gln Glu Ile	Pro Asp Pro Ser	Arg Leu
245	250	255	
Pro Leu Val Ala Ser	Trp Lys Thr Tyr	Pro Leu Phe Phe	Gly Thr Ala
260	265	270	
Ile Phe Ser Phe Glu	Ser Ile Gly Val Val	Leu Pro Leu Glu	Asn Lys
275	280	285	
Met Lys Asn Ala Arg	His Phe Pro Ala Ile	Leu Ser Leu Gly	Met Ser
290	295	300	
Ile Val Thr Ser Leu	Tyr Ile Gly Met Ala	Ala Leu Gly Tyr	Leu Arg
305	310	315	320
Phe Gly Asp Asp Ile	Lys Ala Ser Ile Ser	Leu Asn Leu Pro	Asn Cys
325	330	335	
Trp Leu Tyr Gln Ser	Val Lys Leu Leu Tyr	Ile Ala Gly Ile	Leu Cys
340	345	350	
Thr Tyr Ala Leu Gln	Phe Tyr Val Pro Ala	Glu Ile Ile Ile	Pro Phe
355	360	365	
Ala Ile Ser Arg Val	Ser Thr Arg Trp Ala	Leu Pro Leu Asp	Leu Ser
370	375	380	
Ile Arg Leu Val Met	Val Cys Leu Thr Cys	Leu Leu Ala Ile	Leu Ile
385	390	395	400
Pro Arg Leu Asp Leu	Val Ile Ser Leu Met	Gly Ser Val Ser	Gly Thr
405	410	415	
Ala Leu Ala Leu Ile	Ile Ile Pro Pro Leu	Glu Val Pro Thr	Phe Tyr
420	425	430	
Ser Glu Gly Met Ser	Pro Leu Thr Ile Phe	Lys Asp Ala Leu	Ile Ser
435	440	445	
Ile Leu Gly Phe Val	Gly Phe Val Val Gly	Thr Tyr Gln Ala	Leu Asp
450	455	460	
Glu Leu Leu Lys Ser	Glu Asp Ser His Pro	Phe Ser Asn Ser	Thr Thr
465	470	475	480
Phe Val Arg			

<210> 3109

<211> 225

<212> PRT

<213> Homo sapiens

<400> 3109

```

Met Pro Leu Ser Pro Leu Trp Ser Val Leu Phe Phe Ile Met Leu Phe
  1             5             10             15
Cys Leu Gly Leu Ser Ser Met Phe Gly Asn Met Glu Gly Val Val Val
      20             25             30
Pro Leu Gln Asp Leu Arg Val Ile Pro Pro Lys Trp Pro Lys Glu Val
      35             40             45
Leu Thr Gly Leu Ile Cys Leu Gly Thr Phe Leu Ile Gly Phe Ile Phe
      50             55             60
Thr Leu Asn Ser Gly Gln Tyr Trp Leu Ser Leu Leu Asp Ser Tyr Ala
      65             70             75             80
Gly Ser Ile Pro Leu Leu Ile Ile Ala Phe Cys Glu Met Phe Ser Val
      85             90             95
Val Tyr Val Tyr Gly Val Asp Arg Phe Asn Lys Asp Ile Glu Phe Met
      100            105            110
Ile Gly His Lys Pro Asn Ile Phe Trp Gln Val Thr Trp Arg Val Val
      115            120            125
Ser Pro Leu Leu Met Leu Ile Ile Phe Leu Phe Phe Phe Val Val Glu
      130            135            140
Val Ser Gln Glu Leu Thr Tyr Ser Ile Trp Asp Pro Gly Tyr Glu Glu
      145            150            155            160
Phe Pro Lys Ser Gln Lys Ile Ser Tyr Pro Asn Trp Val Tyr Val Val
      165            170            175
Val Val Ile Val Ala Gly Val Pro Ser Leu Thr Ile Pro Gly Tyr Ala
      180            185            190
Ile Tyr Lys Leu Ile Arg Asn His Cys Gln Lys Pro Gly Asp His Gln
      195            200            205
Gly Leu Val Ser Thr Leu Ser Thr Ala Ser Met Asn Gly Asp Leu Lys
      210            215            220
Tyr

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225

<210> 3110

<211> 367

<212> PRT

<213> Homo sapiens

<400> 3110

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Met Cys Gly Asp Gly Thr Asn Asp Val Gly Ala Leu Lys His Ala Asp
  1             5             10             15
Val Gly Val Ala Leu Leu Ala Asn Ala Pro Glu Arg Val Val Glu Arg
      20             25             30
Arg Arg Arg Pro Arg Asp Ser Pro Thr Leu Ser Asn Ser Gly Ile Arg
      35             40             45
Ala Thr Ser Arg Thr Ala Lys Gln Arg Ser Gly Leu Pro Pro Ser Glu
      50             55             60
Glu Gln Pro Thr Ser Gln Arg Asp Arg Leu Ser Gln Val Leu Arg Asp
      65             70             75             80
Leu Glu Asp Glu Ser Thr Pro Ile Val Lys Leu Gly Asp Ala Ser Ile
      85             90             95
Ala Ala Pro Phe Thr Ser Lys Leu Ser Ser Ile Gln Cys Ile Cys His
      100            105            110
Val Ile Lys Gln Gly Arg Cys Thr Leu Val Thr Thr Leu Gln Met Phe
      115            120            125
Lys Ile Leu Ala Leu Asn Ala Leu Ile Leu Ala Tyr Ser Gln Ser Val
      130            135            140
Leu Tyr Leu Glu Gly Val Lys Phe Ser Asp Phe Gln Ala Thr Leu Gln
      145            150            155            160
Gly Leu Leu Leu Ala Gly Cys Phe Leu Phe Ile Ser Arg Ser Lys Pro
      165            170            175
Leu Lys Thr Leu Ser Arg Glu Arg Pro Leu Pro Asn Ile Phe Asn Leu
      180            185            190
Tyr Thr Ile Leu Thr Val Met Leu Gln Phe Phe Val His Phe Leu Ser
      195            200            205
Leu Val Tyr Leu Tyr Arg Glu Ala Gln Ala Arg Ser Pro Glu Lys Gln

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210	215	220	
Glu Gln Phe Val Asp Leu Tyr Lys Glu Phe Glu Pro Ser Leu Val Asn			
225	230	235	240
Ser Thr Val Tyr Ile Met Ala Met Ala Met Gln Met Ala Thr Phe Ala			
	245	250	255
Ile Asn Tyr Lys Val Arg Pro Gly Pro Cys Pro Asn Ile His Cys Leu			
	260	265	270
Pro Thr Gln Pro His Pro Met Lys Pro Ser Val Pro His Pro His Arg			
	275	280	285
Ala Arg Pro Ser Trp Arg Ala Cys Pro Arg Thr Ser Pro Trp Cys Gly			
290	295	300	
Val Trp Gln Phe His Ser Trp Pro Ser Leu Ala Cys Ser Ser Ala Pro			
305	310	315	320
Arg Pro Thr Ser Thr Ala Ser Leu Ala Ser Trp Thr Ser Leu Trp Ser			
	325	330	335
Ser Ser Trp Ser Leu Pro Arg Ser Cys Ser Trp Thr Ser Ala Trp Arg			
	340	345	350
Ser Trp Pro Thr Ala Ser Cys Ser Ser Ser Trp Gly Pro Arg Ser			
355	360	365	

<210> 3111

<211> 384

<212> PRT

<213> Homo sapiens

<400> 3111

Met Gln Ala Phe Ser Glu Glu Glu Arg Lys Gln Trp Leu Glu Ala Leu	
1	5 10 15
Gly Gly Lys Glu Ala Leu Ser His Ser Phe Asn Thr Ala Ile Ile Pro	
	20 25 30
Arg Pro Glu Gly Asn Ala Gln Leu Asp Lys Met Gly Phe Thr Ile Ile	
	35 40 45
Arg Lys Cys Ile Ser Ala Val Glu Thr Arg Gly Ile Asn Asp Gln Gly	
50	55 60
Leu Tyr Arg Val Val Gly Val Ser Ser Lys Val Gln Arg Leu Leu Ser	

65	70	75	80
Met Leu Met Asp Val Lys Thr Cys Asn Glu Val Asp Leu Glu Asn Ser			
	85	90	95
Ala Asp Trp Glu Val Lys Thr Ile Thr Ser Ala Leu Lys Gln Tyr Leu			
	100	105	110
Arg Ser Leu Pro Glu Pro Leu Met Thr Tyr Glu Leu His Gly Asp Phe			
	115	120	125
Ile Val Pro Ala Lys Ser Gly Ser Pro Glu Ser Arg Val Asn Ala Ile			
	130	135	140
His Phe Leu Val His Lys Leu Pro Glu Lys Asn Lys Glu Met Leu Asp			
145	150	155	160
Ile Leu Val Lys His Leu Thr Asn Val Ser Asn His Ser Lys Gln Asn			
	165	170	175
Leu Met Thr Val Ala Asn Leu Gly Val Val Phe Gly Pro Thr Leu Met			
	180	185	190
Arg Pro Gln Glu Glu Thr Val Ala Ala Leu Met Asp Leu Lys Phe Gln			
	195	200	205
Asn Ile Val Val Glu Ile Leu Ile Glu Asn His Glu Lys Ile Phe Arg			
	210	215	220
Thr Pro Pro Asp Thr Thr Phe Pro Glu Pro Thr Cys Leu Ser Ala Ser			
225	230	235	240
Pro Pro Asn Ala Pro Pro Arg Gln Ser Lys Arg Gln Gly Gln Arg Thr			
	245	250	255
Lys Arg Pro Val Ala Val Tyr Asn Leu Cys Leu Glu Leu Glu Asp Gly			
	260	265	270
Asp Asn Pro Tyr Pro Ser Lys Glu Asp Thr Pro Thr Ser Ser Leu Asp			
	275	280	285
Ser Leu Ser Ser Pro Ser Pro Val Thr Thr Ala Val Pro Gly Pro Pro			
	290	295	300
Gly Pro Asp Lys Asn His Leu Leu Ala Asp Gly Gly Ser Phe Gly Asp			
305	310	315	320
Trp Ala Ser Thr Ile Ile Arg Ser Arg Lys Ala Arg Ala Val Tyr Pro			
	325	330	335
Cys Glu Ala Glu His Ser Ser Glu Leu Ser Phe Glu Ile Gly Ala Ile			
	340	345	350
Phe Glu Asp Val Gln Thr Ser Arg Glu Pro Gly Trp Leu Glu Gly Thr			

355 360 365
 Leu Asn Gly Lys Arg Gly Leu Ile Pro Gln Asn Tyr Val Glu Leu Leu
 370 375 380

<210> 3112

<211> 815

<212> PRT

<213> Homo sapiens

<400> 3112

Met Ile Leu Gly Ala Met Leu Asn Ile Val Gln Asp Ser Ala Leu Leu
 1 5 10 15
 Glu Ala Ile Gly Cys Gln Met Glu Met Gly Gly Gly Glu Asn Asn Leu
 20 25 30
 Lys Ser Arg Ser Arg Thr Asn Ser Gly Ile Ser Ser Ala Ser Gly Gly
 35 40 45
 Ser Thr Glu Pro Thr Thr Pro Asp Ser Glu Arg Pro Ala Gln Ala Leu
 50 55 60
 Leu Arg Asp Tyr Ala Leu Asn Thr Asp Ser Ala Ala Gly Leu Leu Ile
 65 70 75 80
 Arg Ser Ile His Leu Val Thr Gln Arg Leu Asn Ser Gln Trp Arg Gln
 85 90 95
 Asp Met Ser Ile Ser Leu Ala Ala Leu Glu Leu Leu Ser Gly Leu Ala
 100 105 110
 Lys Val Lys Val Met Val Asp Ser Gly Asp Arg Lys Arg Ala Ile Ser
 115 120 125
 Ser Val Cys Thr Tyr Ile Val Tyr Gln Cys Ser Arg Pro Ala Pro Leu
 130 135 140
 His Ser Arg Asp Leu His Ser Met Ile Val Ala Ala Phe Gln Cys Leu
 145 150 155 160
 Cys Val Trp Leu Thr Glu His Pro Asp Met Leu Asp Glu Lys Asp Cys
 165 170 175
 Leu Lys Glu Val Leu Glu Ile Val Glu Leu Gly Ile Ser Gly Ser Lys
 180 185 190
 Ser Lys Asn Asn Gly Gln Glu Val Lys Tyr Lys Gly Asp Lys Glu Pro

195	200	205
Asn Pro Ala Ser Met Arg Val	Lys Asp Ala Ala Glu Ala Thr Leu Thr	
210	215	220
Cys Ile Met Gln Leu Leu Gly Ala Phe Pro Ser Pro Ser Gly Pro Ala		
225	230	235
Ser Pro Cys Ser Leu Val Asn Glu Thr Thr Leu Ile Lys Tyr Ser Arg		
245	250	255
Leu Pro Thr Ile Asn Lys His Ser Phe Arg Tyr Phe Val Leu Asp Asn		
260	265	270
Ser Val Ile Leu Ala Met Leu Glu Gln Pro Leu Gly Asn Glu Gln Asn		
275	280	285
Asp Phe Phe Pro Ser Val Thr Val Leu Val Arg Gly Met Ser Gly Arg		
290	295	300
Leu Ala Trp Ala Gln Gln Leu Cys Leu Leu Pro Arg Gly Ala Lys Ala		
305	310	315
Asn Gln Lys Leu Phe Val Pro Glu Pro Arg Pro Val Pro Lys Asn Asp		
325	330	335
Val Gly Phe Lys Tyr Ser Val Lys His Arg Pro Phe Pro Glu Glu Val		
340	345	350
Asp Lys Ile Pro Phe Val Lys Ala Asp Leu Ser Ile Pro Asp Leu His		
355	360	365
Glu Ile Val Thr Glu Glu Leu Glu Glu Arg His Glu Lys Leu Arg Ser		
370	375	380
Gly Met Ala Gln Gln Ile Ala Tyr Glu Ile His Leu Glu Gln Gln Ser		
385	390	395
Glu Glu Glu Leu Gln Lys Arg Ser Phe Pro Asp Pro Val Thr Asp Cys		
405	410	415
Lys Pro Pro Pro Pro Ala Gln Glu Phe Gln Thr Ala Arg Leu Phe Leu		
420	425	430
Ser His Phe Gly Phe Leu Ser Leu Glu Ala Leu Lys Glu Pro Ala Asn		
435	440	445
Ser Arg Leu Pro Pro His Leu Ile Ala Leu Asp Ser Thr Ile Pro Gly		
450	455	460
Phe Phe Asp Asp Ile Gly Tyr Leu Asp Leu Leu Pro Cys Arg Pro Phe		
465	470	475
Asp Thr Val Phe Ile Phe Tyr Met Lys Pro Gly Gln Lys Thr Asn Gln		

	485		490		495
Glu Ile Leu Lys Asn Val Glu Ser Ser Arg Thr Val Gln Pro His Phe					
	500		505		510
Leu Glu Phe Leu Leu Ser Leu Gly Trp Ser Val Asp Val Gly Arg His					
	515		520		525
Pro Gly Trp Thr Gly His Val Ser Thr Ser Trp Ser Ile Asn Cys Cys					
	530		535		540
Asp Asp Gly Glu Gly Ser Gln Gln Glu Glu Val Ile Ser Ser Glu Asp					
545		550		555	560
Ile Gly Ala Ser Ile Phe Asn Gly Gln Lys Lys Val Leu Tyr Tyr Ala					
	565		570		575
Asp Ala Leu Thr Glu Ile Ala Phe Val Val Pro Ser Pro Val Glu Ser					
	580		585		590
Leu Thr Asp Ser Leu Glu Ser Asn Ile Ser Asp Gln Asp Ser Asp Ser					
	595		600		605
Asn Met Asp Leu Met Pro Gly Ile Leu Lys Gln Pro Ser Leu Thr Leu					
	610		615		620
Glu Leu Phe Pro Asn His Thr Asp Asn Leu Asn Ser Ser Gln Arg Leu					
625		630		635	640
Gly Pro Ser Ser Arg Met Arg Lys Leu Pro Gln Gly Arg Pro Val Pro					
	645		650		655
Pro Leu Gly Pro Glu Thr Arg Val Ser Val Val Trp Val Glu Arg Tyr					
	660		665		670
Asp Asp Ile Glu Asn Phe Pro Leu Ser Glu Leu Met Thr Glu Ile Ser					
	675		680		685
Thr Gly Val Glu Thr Thr Ala Asn Ser Ser Thr Ser Leu Arg Ser Thr					
	690		695		700
Thr Leu Glu Lys Glu Val Pro Val Ile Phe Ile His Pro Leu Asn Thr					
705		710		715	720
Gly Leu Phe Arg Ile Lys Ile Gln Gly Ala Thr Gly Lys Phe Asn Met					
	725		730		735
Val Ile Pro Leu Val Asp Gly Met Ile Val Ser Arg Arg Ala Leu Gly					
	740		745		750
Phe Leu Val Arg Gln Thr Val Ile Asn Ile Cys Arg Arg Lys Arg Leu					
	755		760		765
Glu Ser Asp Ser Tyr Ser Pro Pro His Val Arg Arg Lys Gln Lys Ile					

770 775 780
 Thr Asp Ile Val Asn Lys Tyr Arg Asn Lys Gln Leu Glu Pro Glu Phe
 785 790 795 800
 Tyr Thr Ser Leu Phe Gln Glu Val Gly Leu Lys Asn Cys Ser Ser
 805 810 815

<210> 3113

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3113

Met Gly Thr Ser Ala Thr Pro Trp Ser Ala Phe Thr Arg Pro Gly Asn
 1 5 10 15
 Thr Ala Gln Ser Leu Arg Pro Gly Arg Pro Leu Gly Ser Arg Gly Gly
 20 25 30
 Glu Ala Val Gly Val Ala Ser Gly Arg Arg Ser Arg Glu Pro His Phe
 35 40 45
 Pro Glu Cys Arg Ala Gln Pro Arg Pro Ala Arg Pro Ala Pro Arg Gly
 50 55 60
 Arg Gly Ser Arg Gly Leu Arg Arg Glu Asp Ala Lys Arg Pro Pro Gly
 65 70 75 80
 Leu Arg Gly Ala Ala Gln Glu Ser Ala Arg Pro Pro Gly Ala Arg Ala
 85 90 95
 Gly Leu Val Arg Phe Arg
 100

<210> 3114

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3114

Met Val Ser Lys His Val Pro Trp Ser Pro Ala Ser Lys His Ser Ile

1 5 10 15
 Ala His Thr Ala Ser Leu Ser Leu Gly Ser Ser His Thr Phe Ser Arg
 20 25 30
 Val Arg Ala Val Ser Val Gly Ser Gly Glu Ala Thr Glu Thr Ala Thr
 35 40 45
 Gly Ser Leu Lys Ser Ala Arg Ala Ser Leu Gly Arg Cys Leu Glu Asn
 50 55 60
 Thr Pro Gly Asp Ile Val Ser Ser Leu Ala Ser Glu Met Leu Cys Ser
 65 70 75 80
 Tyr Phe Arg Ser Ser Leu Lys Leu Ser Gly Met Leu Pro Ser Leu Ser
 85 90 95
 Cys Phe Ser Ser Cys Cys Gly Pro Gln Val Gln Gly Leu Thr Ser Glu
 100 105 110
 Cys

<210> 3115

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3115

Met Gln Val Gln Leu Pro His Pro His Ser Leu Gly Thr Asn Ala Gly
 1 5 10 15
 Ala Ala Ser Pro Ser Pro Leu Phe Arg His Lys Cys Arg Cys Ser Phe
 20 25 30
 Pro Ile Pro Thr Leu Arg Ala Gln Met Gln Val Gln Leu Pro His Pro
 35 40 45
 His Ser Leu Gly Thr Asn Ala Gly Ala Ala Ser Pro Ser Pro Leu Phe
 50 55 60
 Arg His Lys Cys Arg Cys Ser Phe Pro Ile Pro Thr Leu Arg Ala Gln
 65 70 75 80
 Met Gln Val Gln Leu Pro His Pro His Ser Leu Gly Thr Asn Ala Gly
 85 90 95
 Ala Ala Ser Pro Ser Pro Leu Leu Gly His Lys Cys Arg Cys Ser Phe

100	105	110
Pro Ile Pro Thr Leu Arg Ala Gln Met Gln Val Gln Leu Pro His Pro		
115	120	125
His Ser Leu Gly Thr Asn Ala Gly Ala Ala Ser Pro Ser Pro Leu Leu		
130	135	140
Gly His Lys Cys Arg Cys Ser Phe Pro Ile Pro Thr Leu		
145	150	155

<210> 3116

<211> 525

<212> PRT

<213> Homo sapiens

<400> 3116

Met Ala Gly Leu Trp Leu Gly Leu Val Trp Gln Lys Leu Leu Leu Trp		
1	5	10
Gly Ala Ala Ser Ala Leu Ser Leu Ala Gly Ala Ser Leu Val Leu Ser		
20	25	30
Leu Leu Gln Arg Val Ala Ser Tyr Ala Arg Lys Trp Gln Gln Met Arg		
35	40	45
Pro Ile Pro Thr Val Ala Arg Ala Tyr Pro Leu Val Gly His Ala Leu		
50	55	60
Leu Met Lys Pro Asp Gly Arg Glu Phe Phe Gln Gln Ile Ile Glu Tyr		
65	70	75
Thr Glu Glu Tyr Arg His Met Pro Leu Leu Lys Leu Trp Val Gly Pro		
85	90	95
Val Pro Met Val Ala Leu Tyr Asn Ala Glu Asn Val Glu Val Ile Leu		
100	105	110
Thr Ser Ser Lys Gln Ile Asp Lys Ser Ser Met Tyr Lys Phe Leu Glu		
115	120	125
Pro Trp Leu Gly Leu Gly Leu Leu Thr Ser Thr Gly Asn Lys Trp Arg		
130	135	140
Ser Arg Arg Lys Met Leu Thr Pro Thr Phe His Phe Thr Ile Leu Glu		
145	150	155
		160

Asp Phe Leu Asp Ile Met Asn Glu Gln Ala Asn Ile Leu Val Lys Lys
 165 170 175
 Leu Glu Lys His Ile Asn Gln Glu Ala Phe Asn Cys Phe Phe Tyr Ile
 180 185 190
 Thr Leu Cys Ala Leu Asp Ile Ile Cys Glu Thr Ala Met Gly Lys Asn
 195 200 205
 Ile Gly Ala Gln Ser Asn Asp Asp Ser Glu Tyr Val Arg Ala Val Tyr
 210 215 220
 Arg Met Ser Glu Met Ile Phe Arg Arg Ile Lys Met Pro Trp Leu Trp
 225 230 235 240
 Leu Asp Leu Trp Tyr Leu Met Phe Lys Glu Gly Trp Glu His Lys Lys
 245 250 255
 Ser Leu Lys Ile Leu His Thr Phe Thr Asn Ser Val Ile Ala Glu Arg
 260 265 270
 Ala Asn Glu Met Asn Ala Asn Glu Asp Cys Arg Gly Asp Gly Arg Gly
 275 280 285
 Ser Ala Pro Ser Lys Asn Lys Arg Arg Ala Phe Leu Asp Leu Leu Leu
 290 295 300
 Ser Val Thr Asp Asp Glu Gly Asn Arg Leu Ser His Glu Asp Ile Arg
 305 310 315 320
 Glu Glu Val Asp Thr Phe Met Phe Glu Gly His Asp Thr Thr Ala Ala
 325 330 335
 Ala Ile Asn Trp Ser Leu Tyr Leu Leu Gly Ser Asn Pro Glu Val Gln
 340 345 350
 Lys Lys Val Asp His Glu Leu Asp Asp Val Phe Gly Lys Ser Asp Arg
 355 360 365
 Pro Ala Thr Val Glu Asp Leu Lys Lys Leu Arg Tyr Leu Glu Cys Val
 370 375 380
 Ile Lys Glu Thr Leu Arg Leu Phe Pro Ser Val Pro Leu Phe Ala Arg
 385 390 395 400
 Ser Val Ser Glu Asp Cys Glu Val Ala Gly Tyr Arg Val Leu Lys Gly
 405 410 415
 Thr Glu Ala Val Ile Ile Pro Tyr Ala Leu His Arg Asp Pro Arg Tyr
 420 425 430
 Phe Pro Asn Pro Glu Glu Phe Gln Pro Glu Arg Phe Phe Pro Glu Asn
 435 440 445

Ala Gln Gly Arg His Pro Tyr Ala Tyr Val Pro Phe Ser Ala Gly Pro
 450 455 460
 Arg Asn Cys Ile Gly Gln Lys Phe Ala Val Met Glu Glu Lys Thr Ile
 465 470 475 480
 Leu Ser Cys Ile Leu Arg His Phe Trp Ile Glu Ser Asn Gln Lys Arg
 485 490 495
 Glu Glu Leu Gly Leu Glu Gly Gln Leu Ile Leu Arg Pro Ser Asn Gly
 500 505 510
 Ile Trp Ile Lys Leu Lys Arg Arg Asn Ala Asp Glu Arg
 515 520 525

<210> 3117

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3117

Met Leu Thr Glu Val Met Glu Val Trp His Gly Leu Val Ile Ala Val
 1 5 10 15
 Val Ser Leu Phe Leu Gln Ala Cys Phe Leu Thr Ala Ile Asn Tyr Leu
 20 25 30
 Leu Ser Arg His Met Ala His Lys Ser Glu Gln Ile Leu Lys Ala Ala
 35 40 45
 Ser Leu Gln Val Pro Arg Pro Ser Pro Gly His His His Pro Pro Ala
 50 55 60
 Val Lys Glu Met Lys Glu Thr Gln Thr Glu Arg Asp Ile Pro Met Ser
 65 70 75 80
 Asp Ser Leu Tyr Arg His Asp Ser Asp Thr Pro Ser Asp Ser Leu Asp
 85 90 95
 Ser Ser Cys Ser Ser Pro Pro Ala Cys Gln Ala Thr Glu Asp Val Asp
 100 105 110
 Tyr Thr Gln Val Val Phe Ser Asp Pro Gly Glu Leu Lys Asn Asp Ser
 115 120 125
 Pro Leu Asp Tyr Glu Asn Ile Lys Glu Ile Thr Asp Tyr Val Asn Val
 130 135 140

Asn Pro Glu Arg His Lys Pro Ser Phe Trp Tyr Phe Val Asn Pro Ala
 145 150 155 160

Leu Ser Glu Pro Ala Glu Tyr Asp Gln Val Ala Met
 165 170

<210> 3118

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3118

Met Phe Ser Cys Leu Lys Lys Asn Lys His His Gln Gln Pro Phe Pro
 1 5 10 15
 Met Gly Ser Ser Ser Arg Cys Tyr His Lys Arg Asp Arg Gln Met Asp
 20 25 30
 Ile Ile Ala Lys Arg Leu Ser Asn Trp Val Pro Arg Ser Arg Gly Val
 35 40 45
 Glu Pro Leu Phe Arg Thr Val Gln Val Lys Gln Gly Ala Gly Asn Lys
 50 55 60
 Ala Gly Tyr Tyr Asn Pro Thr Asn Trp Val Pro Arg Ser Gln Gly Cys
 65 70 75 80
 Gly Ala Pro Leu Gln Asp Cys Thr Gly Glu Ala Gly Gly Trp Glu Gln
 85 90 95
 Gly Arg Leu Leu
 100

<210> 3119

<211> 179

<212> PRT

<213> Homo sapiens

<400> 3119

Met Pro Arg Ser Ser Val Arg Phe Ser Leu Phe Pro His Val Gln Pro
 1 5 10 15

Ile Val Phe Lys Glu Lys Leu Thr Met Lys Thr Gly Leu Leu Met Glu
 20 25 30
 Glu Lys Leu Glu Cys Ser Leu Trp Cys Cys Leu Ser Asp Pro Ser Ile
 35 40 45
 Pro Gly Arg Cys Cys Val Leu Glu Arg His Ile Val Pro Trp Met Gln
 50 55 60
 Gln Leu His Gln Gln Trp Lys Trp Leu Ile Cys Gly Leu Cys Arg Leu
 65 70 75 80
 Tyr Asn Leu Pro Lys His Pro Asn Val Glu Met Pro Asp Gln Pro Leu
 85 90 95
 Pro Met Gly Gln Asn Gly Thr Thr Glu Glu Val Thr Ser Lys Glu Glu
 100 105 110
 Glu Glu Glu Glu Met Asp Glu Asp Ile Glu Asp Leu Asp His Cys Glu
 115 120 125
 Met Lys Glu Glu Pro Thr Ser Glu Lys Lys Leu Glu Asp Glu Gly Thr
 130 135 140
 Glu Lys Glu Asn Trp Ala Ile Leu Glu Lys Ile Arg Lys Thr Glu Arg
 145 150 155 160
 Gln Gly His Leu Asn Val Leu Thr Leu Ile Val Leu Cys Thr Val Ile
 165 170 175
 Phe Arg Ser

<210> 3120

<211> 742

<212> PRT

<213> Homo sapiens

<400> 3120

Met Glu Ser Gly Thr Ser Ser Pro Gln Pro Pro Gln Leu Asp Pro Leu
 1 5 10 15
 Asp Ala Phe Pro Gln Lys Gly Leu Glu Pro Gly Asp Ile Ala Val Leu
 20 25 30
 Val Leu Tyr Phe Leu Phe Val Leu Ala Val Gly Leu Trp Val Gly Ser
 35 40 45

Pro Ser Val Ala Gln Gly Thr Arg Thr Gln Trp Trp Gln Ser Trp Leu
 50 55 60
 Thr Pro Ala Ser Thr Ser Trp Ala Gln Val Ile Leu Ser Pro Arg Leu
 65 70 75 80
 Pro Asp Thr Glu Glu Val Leu Ser Thr Arg Asn Arg Leu Ser Pro Asp
 85 90 95
 Thr Lys Pro Leu Gly Ala Leu Ile Leu Asn Phe Gln Val Ser Arg Ile
 100 105 110
 Ser Thr Val Lys Thr Lys Arg Asp Thr Val Lys Gly Tyr Phe Leu Ala
 115 120 125
 Gly Gly Asp Met Val Trp Trp Pro Val Gly Ala Ser Leu Phe Ala Ser
 130 135 140
 Asn Val Gly Ser Gly His Phe Ile Gly Leu Ala Gly Ser Gly Ala Ala
 145 150 155 160
 Thr Gly Ile Ser Val Ser Ala Tyr Glu Leu Asn Gly Leu Phe Ser Val
 165 170 175
 Leu Met Leu Ala Trp Ile Phe Leu Pro Ile Tyr Ile Ala Gly Gln Val
 180 185 190
 Thr Thr Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile
 195 200 205
 Pro Ile Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys
 210 215 220
 Ile Ser Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu
 225 230 235 240
 His Leu Asp Leu Tyr Leu Ala Ile Ala Gly Leu Leu Ala Ile Thr Ala
 245 250 255
 Val Tyr Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala
 260 265 270
 Leu Gln Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr
 275 280 285
 Ser Phe Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe
 290 295 300
 Leu Ala Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro
 305 310 315 320
 Arg Glu Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu
 325 330 335

Pro Trp Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Trp Tyr
 340 345 350
 Trp Cys Thr Asp Gln Val Ile Val Gln Arg Thr Leu Ala Ala Lys Asn
 355 360 365
 Leu Ser His Ala Lys Gly Gly Ala Leu Met Ala Ala Tyr Leu Lys Val
 370 375 380
 Leu Pro Leu Phe Ile Met Val Phe Pro Gly Met Val Ser Arg Ile Leu
 385 390 395 400
 Phe Pro Asp Gln Val Ala Cys Ala Asp Pro Glu Ile Cys Gln Lys Ile
 405 410 415
 Cys Ser Asn Pro Ser Gly Cys Ser Asp Ile Ala Tyr Pro Lys Leu Val
 420 425 430
 Leu Glu Leu Leu Pro Thr Gly Leu Arg Gly Leu Met Met Ala Val Met
 435 440 445
 Val Ala Ala Leu Met Ser Ser Leu Thr Ser Ile Phe Asn Ser Ala Ser
 450 455 460
 Thr Ile Phe Thr Met Asp Leu Trp Asn His Leu Arg Pro Arg Ala Ser
 465 470 475 480
 Glu Lys Glu Leu Met Ile Val Gly Arg Val Phe Val Leu Leu Leu Val
 485 490 495
 Leu Val Ser Ile Leu Trp Ile Pro Val Val Gln Ala Ser Gln Gly Gly
 500 505 510
 Gln Leu Phe Ile Tyr Ile Gln Ser Ile Ser Ser Tyr Leu Gln Pro Pro
 515 520 525
 Val Ala Val Val Phe Ile Met Gly Cys Phe Trp Lys Arg Thr Asn Glu
 530 535 540
 Lys Gly Ala Phe Trp Gly Leu Ile Ser Gly Leu Leu Leu Gly Leu Val
 545 550 555 560
 Arg Leu Val Leu Asp Phe Ile Tyr Val Gln Pro Arg Cys Asp Gln Pro
 565 570 575
 Asp Glu Arg Pro Val Leu Val Lys Ser Ile His Tyr Leu Tyr Phe Ser
 580 585 590
 Met Ile Leu Ser Thr Val Thr Leu Ile Thr Val Ser Thr Val Ser Trp
 595 600 605
 Phe Thr Glu Pro Pro Pro Lys Glu Met Val Ser His Leu Thr Trp Phe
 610 615 620

Thr Arg His Asp Pro Val Val Gln Lys Glu Gln Ala Pro Pro Ala Ala
 625 630 635 640
 Pro Leu Ser Leu Thr Leu Ser Gln Asn Gly Met Pro Glu Ala Ser Ser
 645 650 655
 Ser Ser Ser Val Gln Phe Glu Met Val Gln Glu Asn Thr Ser Lys Thr
 660 665 670
 His Ser Cys Asp Met Thr Pro Lys Gln Ser Lys Val Val Lys Ala Ile
 675 680 685
 Leu Trp Leu Cys Gly Ile Gln Glu Lys Gly Lys Glu Glu Leu Pro Ala
 690 695 700
 Arg Ala Glu Ala Ile Ile Val Ser Leu Glu Glu Asn Pro Leu Val Lys
 705 710 715 720
 Thr Leu Leu Asp Val Asn Leu Ile Phe Cys Val Ser Cys Ala Ile Phe
 725 730 735
 Ile Trp Gly Tyr Phe Ala
 740

<210> 3121

<211> 368

<212> PRT

<213> Homo sapiens

<400> 3121

Met Met Phe Arg Ser Asp Arg Met Trp Ser Cys His Trp Lys Trp Lys
 1 5 10 15
 Pro Ser Pro Leu Leu Phe Leu Phe Ala Leu Tyr Ile Met Cys Val Pro
 20 25 30
 His Ser Val Trp Gly Cys Ala Asn Cys Arg Val Val Leu Ser Asn Pro
 35 40 45
 Ser Gly Thr Phe Thr Ser Pro Cys Tyr Pro Asn Asp Tyr Pro Asn Ser
 50 55 60
 Gln Ala Cys Met Trp Thr Leu Arg Ala Pro Thr Gly Tyr Ile Ile Gln
 65 70 75 80
 Ile Thr Phe Asn Asp Phe Asp Ile Glu Glu Ala Pro Asn Cys Ile Tyr
 85 90 95

Asp Ser Leu Ser Leu Asp Asn Gly Glu Ser Gln Thr Lys Phe Cys Gly			
100	105	110	
Ala Thr Ala Lys Gly Leu Ser Phe Asn Ser Ser Ala Asn Glu Met His			
115	120	125	
Val Ser Phe Ser Ser Asp Phe Ser Ile Gln Lys Lys Gly Phe Asn Ala			
130	135	140	
Ser Tyr Ile Arg Val Ala Val Ser Leu Arg Asn Gln Lys Val Ile Leu			
145	150	155	160
Pro Gln Thr Ser Asp Ala Tyr Gln Val Ser Val Ala Lys Ser Ile Ser			
165	170	175	
Ile Pro Glu Leu Ser Ala Phe Thr Leu Cys Phe Glu Ala Thr Lys Val			
180	185	190	
Gly His Glu Asp Ser Asp Trp Thr Ala Phe Ser Tyr Ser Asn Ala Ser			
195	200	205	
Phe Thr Gln Leu Leu Ser Phe Gly Lys Ala Lys Ser Gly Tyr Phe Leu			
210	215	220	
Ser Ile Ser Asp Ser Gln Cys Leu Leu Asn Asn Ala Leu Pro Val Lys			
225	230	235	240
Glu Lys Glu Asp Ile Phe Ala Glu Ser Phe Glu Gln Leu Cys Leu Val			
245	250	255	
Trp Asn Asn Ser Leu Gly Ser Ile Gly Val Asn Phe Lys Arg Asn Tyr			
260	265	270	
Glu Thr Val Pro Cys Asp Ser Thr Ile Ser Lys Val Ile Pro Gly Asn			
275	280	285	
Gly Lys Leu Leu Leu Gly Ser Asn Gln Asn Glu Ile Val Ser Leu Lys			
290	295	300	
Gly Asp Ile Tyr Asn Phe Arg Leu Trp Asn Phe Thr Met Asn Ala Lys			
305	310	315	320
Ile Leu Ser Asn Leu Ser Cys Asn Val Lys Gly Asn Val Val Asp Trp			
325	330	335	
Gln Asn Asp Phe Trp Asn Ile Pro Asn Leu Ala Leu Lys Ala Glu Ser			
340	345	350	
Asn Leu Ser Cys Gly Glu Phe Val Ala Tyr Ser Phe Phe Phe Phe Phe			
355	360	365	

<210> 3122

<211> 195

<212> PRT

<213> Homo sapiens

<400> 3122

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Met Ile Leu Ala Tyr Cys Asn Leu His Leu Ser Ser Ser Ser Asn Ser
  1             5             10             15
Pro Ala Ser Ala Ser Gln Ile Ala Met Ile Thr Gly Ala His His His
      20             25             30
Ala Trp Leu Ile Phe Val Phe Leu Val Gly Met Gly Phe His His Val
      35             40             45
Gly Gln Thr Gly Leu Glu Leu Leu Thr Ser Gly His Leu Pro Ala Ser
      50             55             60
Ala Ser Gln Gly Ala Gly Ile Thr Gly Val Thr Ser Ile Leu Gly Leu
      65             70             75             80
Phe Ile Tyr Leu Phe Phe Glu Met Glu Ser Cys Ser Val Ala Leu Ala
      85             90             95
Gly Val Gln Trp His Gly Leu Gly Ser Leu Gln Pro Gln Pro Pro Gly
      100            105            110
Phe Lys Arg Phe Ser Cys Leu Ser Leu Ser Gly Ser Trp Asp Tyr Arg
      115            120            125
Arg Val Pro Pro His Pro Ala Ser Leu Pro Ile Phe Leu Met Pro Lys
      130            135            140
Arg Thr Tyr Tyr Ile Tyr Thr Leu Phe Cys Thr Leu Leu Pro Val Leu
      145            150            155            160
Asp Ser Leu Gly Thr Ile Pro Tyr Pro Leu Ser Ile Tyr Lys Glu Leu
      165            170            175
Leu Phe His Cys Phe Pro Gln Arg Ser Ser Ile Pro Pro Asp Met Pro
      180            185            190
Lys Phe Ile
      195

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<210> 3123

<211> 278

<212> PRT

<213> Homo sapiens

<400> 3123

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Met Ser Gly Leu Thr Val Ser Gln Ser Gly Pro Ser Ser Gly Ser Gly
  1             5             10             15
Gly Gln Thr Ser Gly Leu Ala Val Ser Gln Ser Gly Pro Ser Ser Gly
      20             25             30
Ser Gly Gly Gln Thr Ser Gly Leu Ala Val Ser Ala Glu Trp Pro Phe
      35             40             45
Leu Arg Leu Trp Arg Thr Asp Val Arg Ala Arg Gly Val Thr Glu Trp
      50             55             60
Pro Phe Leu Arg Leu Trp Arg Thr Asp Val Arg Ala Arg Gly Val Ser
      65             70             75             80
Arg Val Ala Leu Pro Pro Ala Leu Glu Asp Arg Ser Leu Gly Ser Arg
      85             90             95
Cys His Arg Val Ala Leu Pro Pro Ala Leu Glu Asp Arg Ser Leu Gly
      100            105            110
Ser Arg Cys Gln Gln Ser Gly Pro Ser Ser Gly Ser Gly Gly Gln Thr
      115            120            125
Ser Gly Leu Ala Val Ser Gln Ser Gly Pro Ser Ser Gly Ser Gly Arg
      130            135            140
Gln Thr Ser Gly Ile Thr Val Ser Ala Glu Trp Pro Phe Leu Trp Leu
      145            150            155            160
Trp Arg Thr Asp Val Trp Asp His Gly Val Ser Arg Gly Ala Leu Pro
      165            170            175
Leu Glu Pro Leu Val Gly Asn Leu Leu Val Ala Ser Phe Gly Phe Trp
      180            185            190
Trp Leu Val Phe Leu Phe Ser Phe Phe Ile Phe Phe Phe Phe Asn Leu
      195            200            205
Ile Arg Asp Arg Val Cys Leu Cys Ser Pro Gly Trp Ser Gln Thr Pro
      210            215            220
Gly Leu Lys Gln Ser Ser Cys Ser Val Leu Thr Lys Cys Cys Gly Tyr
      225            230            235            240
Arg Arg Glu Ser Trp Gly Pro Ala Cys Trp Cys Phe Leu Thr Cys Gly

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245 250 255
 Pro Ile Thr Ala Val Ser Ala Phe Arg Val Thr Trp Pro Ser Pro Leu
 260 265 270
 Leu Glu His Pro Leu Leu
 275

<210> 3124

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3124

Met Gly Asn Ser Leu Ser Ile Arg Pro Asp Ser Thr Met Gly Asn Ser
 1 5 10 15
 Thr Pro Val Pro Pro Asp Ser Ser Leu Gly Tyr Ile Ile His His Trp
 20 25 30
 Asn Gln Phe Asp Pro Asp Thr Leu Lys Gly Lys Cys Ile Ile Phe Phe
 35 40 45
 Cys Asn Thr Val Trp Pro His Tyr Glu Leu Pro Ser Pro Gln Gln Trp
 50 55 60
 Ala Val Ser Gly Ser Leu Asn Asp Asp Thr Ile Leu Gln Leu Asp Leu
 65 70 75 80
 Leu Cys Lys Arg Leu Gly Arg Trp Ser Glu Val Pro Tyr Val Gln Ala
 85 90 95
 Phe Ile Lys Ile Ser Lys Thr
 100

<210> 3125

<211> 349

<212> PRT

<213> Homo sapiens

<400> 3125

Met Ala Pro Arg Ser Leu Leu Leu Leu Leu Ser Gly Ala Leu Ala Leu

1	5	10	15
Thr Asp Thr Trp Ala Gly Ser His Ser Leu Arg Tyr Phe Ser Thr Ala			
20	25	30	
Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Tyr Ile Ala Val Glu Tyr			
35	40	45	
Val Asp Asp Thr Gln Phe Leu Arg Phe Asp Ser Asp Ala Ala Ile Pro			
50	55	60	
Arg Met Glu Pro Arg Glu Pro Trp Val Glu Gln Glu Gly Pro Gln Tyr			
65	70	75	80
Trp Glu Trp Thr Thr Gly Tyr Ala Lys Ala Asn Ala Gln Thr Asp Arg			
85	90	95	
Val Ala Leu Arg Asn Leu Leu Arg Arg Tyr Leu Glu Asn Gly Lys Glu			
100	105	110	
Thr Leu Gln Arg Ala Asp Pro Pro Lys Ala His Val Ala His His Pro			
115	120	125	
Ile Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr			
130	135	140	
Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Glu Gln Thr			
145	150	155	160
Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe			
165	170	175	
Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr			
180	185	190	
Thr Cys His Val Gln His Glu Gly Leu Pro Gln Pro Leu Ile Leu Arg			
195	200	205	
Trp Glu Gln Ser Pro Gln Pro Thr Ile Pro Ile Val Gly Ile Val Ala			
210	215	220	
Gly Leu Val Val Leu Gly Ala Val Val Thr Gly Ala Val Val Ala Ala			
225	230	235	240
Val Met Trp Arg Lys Lys Ser Ser Asp Arg Asn Arg Gly Ser Tyr Ser			
245	250	255	
Gln Ala Ala Ala Tyr Ser Val Val Ser Gly Asn Leu Met Ile Thr Trp			
260	265	270	
Trp Ser Ser Leu Phe Leu Leu Gly Val Leu Phe Gln Gly Tyr Leu Gly			
275	280	285	
Cys Leu Arg Ser His Ser Val Leu Gly Arg Arg Lys Ala Gln Leu Leu			

290 295 300
 Ser Val Ser Thr Ser Gln Thr Ser Ile Leu Ile Gln Glu Gln Phe Ser
 305 310 315 320
 His Gln Arg Thr Leu Ala Met Ser Gly Lys Met Phe Cys Cys His Asp
 325 330 335
 Trp Ser Glu Glu Lys Val Leu Pro Ala Ser Cys Gly Glu
 340 345

<210> 3126

<211> 218

<212> PRT

<213> Homo sapiens

<400> 3126

Met Ala Ala Leu Ile Ala Glu Asn Phe Arg Phe Leu Ser Leu Phe Phe
 1 5 10 15
 Lys Ser Lys Asp Val Met Ile Phe Asn Gly Leu Val Ala Leu Gly Thr
 20 25 30
 Val Gly Ser Gln Glu Leu Phe Ser Val Val Ala Phe His Cys Pro Cys
 35 40 45
 Ser Pro Ala Arg Asn Tyr Leu Tyr Gly Leu Ala Ala Ile Gly Val Pro
 50 55 60
 Ala Leu Val Leu Phe Ile Ile Gly Ile Ile Leu Asn Asn His Thr Trp
 65 70 75 80
 Asn Leu Val Ala Glu Cys Gln His Arg Arg Thr Lys Asn Cys Ser Ala
 85 90 95
 Ala Pro Thr Phe Leu Leu Leu Ser Ser Ile Leu Gly Arg Ala Ala Val
 100 105 110
 Ala Pro Val Thr Trp Ser Val Ile Ser Leu Leu Arg Gly Glu Ala Tyr
 115 120 125
 Val Cys Ala Leu Ser Glu Phe Val Asp Pro Ser Ser Leu Thr Ala Arg
 130 135 140
 Glu Glu His Phe Pro Ser Ala His Ala Thr Glu Ile Leu Ala Arg Phe
 145 150 155 160
 Pro Cys Lys Glu Asn Pro Asp Asn Leu Ser Asp Phe Arg Glu Glu Val

165 170 175
 Ser Arg Arg Leu Arg Tyr Glu Ser Gln Val Arg Ser Cys Ala Lys Gly
 180 185 190
 Ser Ser Ser Ser Leu Val Val Ala Gly Glu Arg Ser Gly Asp Gly Leu
 195 200 205
 Val Leu Lys Leu Gly Leu Val Leu Arg Gly
 210 215

<210> 3127

<211> 468

<212> PRT

<213> Homo sapiens

<400> 3127

Met Ala His Ser Val Pro Ser Asp Ser Arg Thr Ser Arg Arg Pro Thr
 1 5 10 15
 Thr Arg Pro His Ala Ala Arg Gly Ala Pro Arg Gly Ser Arg Arg Pro
 20 25 30
 Gly Arg Thr Pro Lys Trp Arg Leu Pro Arg Ile Ser Ala Arg Ala Pro
 35 40 45
 Tyr Arg Leu Arg Arg Leu Arg Arg His Thr Tyr Trp Pro Pro Arg Arg
 50 55 60
 Pro Val Ala Ala Ser Arg Cys Trp Pro Val Gly Ala Thr Pro Leu Gly
 65 70 75 80
 Ser Val Gly Gly Arg Thr Gly Lys Met Asp Ala Ala Thr Leu Thr Tyr
 85 90 95
 Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp Phe Pro Glu Thr Ser Glu
 100 105 110
 Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser Ile Phe Thr Glu Lys Asp
 115 120 125
 Glu Ile Leu Ser Asp Val Ala Ser Arg Leu Trp Phe Thr Tyr Arg Lys
 130 135 140
 Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro Thr Ser Asp Thr Gly Trp
 145 150 155 160
 Gly Cys Met Leu Arg Cys Gly Gln Met Ile Phe Ala Gln Ala Leu Val

	165		170		175
Cys Arg His Leu Gly Arg Asp Trp Arg Trp Thr Gln Arg Lys Arg Gln					
	180		185		190
Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala Phe Ile Asp Arg Lys Asp					
	195		200		205
Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln Met Gly Val Gly Glu Gly					
	210		215		220
Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn Thr Val Ala Gln Val Leu					
225		230		235	240
Lys Lys Leu Ala Val Phe Asp Thr Trp Ser Ser Leu Ala Val His Ile					
	245		250		255
Ala Met Asp Asn Thr Val Val Met Glu Glu Ile Arg Arg Leu Cys Arg					
	260		265		270
Thr Ser Val Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp					
	275		280		285
Arg His Cys Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro					
	290		295		300
Ser Pro Trp Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu					
305		310		315	320
Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr Leu Lys His Cys Phe Met					
	325		330		335
Met Pro Gln Ser Leu Gly Val Ile Gly Gly Lys Pro Asn Ser Ala His					
	340		345		350
Tyr Phe Ile Gly Tyr Val Gly Glu Glu Leu Ile Tyr Leu Asp Pro His					
	355		360		365
Thr Thr Gln Pro Ala Val Glu Pro Thr Asp Gly Cys Phe Ile Pro Asp					
	370		375		380
Glu Ser Phe His Cys Gln His Pro Pro Cys Arg Met Ser Ile Ala Glu					
385		390		395	400
Leu Asp Pro Ser Ile Ala Val Gly Phe Phe Cys Lys Thr Glu Asp Asp					
	405		410		415
Phe Asn Asp Trp Cys Gln Gln Val Lys Lys Leu Ser Leu Leu Gly Gly					
	420		425		430
Ala Leu Pro Met Phe Glu Leu Val Glu Leu Gln Pro Ser His Leu Ala					
	435		440		445
Cys Pro Asp Val Leu Asn Leu Ser Leu Gly Glu Ser Cys Gln Val Gln					

450
Ile Leu Leu Met
465

455

460

<210> 3128

<211> 622

<212> PRT

<213> Homo sapiens

<400> 3128

Met Ala Thr Val Leu Ser Arg Ala Leu Lys Leu Pro Gly Lys Lys Ser
 1 5 10 15
 Pro Asp Leu Gly Glu Tyr Asp Pro Leu Thr Gln Ala Asp Ser Asp Glu
 20 25 30
 Ser Glu Asp Asp Leu Val Leu Asn Leu Gln Lys Asn Gly Gly Val Lys
 35 40 45
 Asn Gly Lys Ser Pro Leu Gly Glu Ala Pro Lys Pro Asp Ser Asp Ala
 50 55 60
 Glu Val Ala Glu Ala Ala Lys Pro His Leu Ser Glu Val Thr Thr Glu
 65 70 75 80
 Gly Tyr Pro Ser Glu Pro Leu Gly Gly Leu Glu Gln Lys Ala Ala Ser
 85 90 95
 Ser Leu Val Ser Tyr Val Arg Thr Ser Val Phe Leu Leu Thr Leu Gly
 100 105 110
 Ile Ser Met Ile Leu Val Leu Leu Cys Ala Phe Leu Ile Pro Cys Pro
 115 120 125
 Pro Arg Asp Leu His Ser Thr Trp Ser Arg His Leu Gly Ser Gln Gly
 130 135 140
 Gly Gly Asp Leu Ser Pro Leu Glu Leu Ala Asp Val Asn Gly Asp Gly
 145 150 155 160
 Leu Arg Asp Val Leu Leu Ser Phe Val Met Ser Arg Asn Gly Ser Ala
 165 170 175
 Val Gly Val Ser Arg Pro Ala Ala Asn Leu Val Cys Pro Ser Gly Met
 180 185 190
 Asn Gly Ser Thr Leu Trp Ser Ser Leu Leu Pro Glu Glu Ala Arg Asp

195	200	205
Ile Thr Cys Leu Glu Leu Met Pro Gly Ser Leu Ala Glu Thr Ile Cys		
210	215	220
Leu Val Thr Gly Thr His Lys Met Leu Ser Ala Phe Asn Ala Thr Ser		
225	230	235
Gly Lys Ala Ile Trp Thr Leu Asn Pro Asn Tyr Leu Ser Asn Gly Thr		
245	250	255
Leu Ala Ala Pro Val Val Val Leu Pro Asp Leu Asp Glu Asp Gly Val		
260	265	270
Arg Asp Leu Val Val Leu Ala Ile Gly Glu Leu Gln Pro Asp Leu Cys		
275	280	285
Phe Leu Leu Val Ser Gly Arg Thr Gly Asn Pro Val Gly Arg Pro Val		
290	295	300
Lys Tyr Asn Ile Val Gly Val Gly Asn Leu Ile Gly Pro Gln Val Tyr		
305	310	315
Ile Thr Thr Asn Gly Ala Val Tyr Ile Leu Phe Gly Phe Gly Asn Ile		
325	330	335
Gln Ala Val Ala Leu Arg Asp Ile Phe Val Gln Ala Gln Asn Arg Asp		
340	345	350
Ser Ser Pro Pro Ser Leu Gln Ile Glu Glu Pro Glu Trp Glu Lys Arg		
355	360	365
Arg Ser Ile Asn Leu Ser Glu Leu Ile Asp Val Tyr Ser Asp Gly Val		
370	375	380
Glu Leu Leu Gln Met Val Lys Ala Pro Asp Ser Asn Cys Ser Asn Leu		
385	390	395
Leu Ile Thr Thr Arg Gln Ser Leu Val Leu Leu Arg Gly Gln Asn Leu		
405	410	415
Thr Pro Tyr Trp Ala Leu Arg Leu Gln Gly Leu Arg Ser Gln Pro Thr		
420	425	430
Pro Gly Tyr Phe Thr Asp Asp Gln Thr Leu Asp Phe Leu Leu Gln Ile		
435	440	445
Gln Asp Gly Val Gly Met Lys Lys Met Met Val Val Asp Gly Asp Ser		
450	455	460
Gly Ser Ile Val Trp Ser Tyr Arg Ala Pro Cys His Met Lys Glu Thr		
465	470	475
Pro Ala Thr Ser Ala Val Thr Ser Asp Gln Lys Ser Val Phe Leu Phe		

485 490 495
 Trp Ala Glu Gly Leu Ser Ala Ala Ser Pro Asn Ser Asp Ile Ile Leu
 500 505 510
 Gly Thr Glu Pro Pro Ser Leu His His Leu Tyr Leu Leu His Pro Ala
 515 520 525
 Phe Pro Ser Ile Leu Leu Asp Leu Ala Asn Thr Thr Gly Thr Val Thr
 530 535 540
 Ala Ser Glu Val Gly Ile Asn Asp Leu Trp Lys Asp Ala Phe Tyr Val
 545 550 555 560
 Thr Arg Thr Thr Gly Pro Ser Ser Glu Gly His Pro Ala Ala Leu Val
 565 570 575
 Val Ser Lys Leu Ser Leu Arg Trp Ala Leu Met Glu Gly Gln Met Ala
 580 585 590
 Gln Leu Gln Glu Ser Thr Pro Lys Ile Gly Arg Gly Glu Leu Arg Arg
 595 600 605
 Phe Leu Ser Arg Ile Lys Phe Val Glu Ala Pro Tyr Glu Ile
 610 615 620

<210> 3129

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3129

Met Val Arg Trp Val Pro Thr Arg Arg Val Val Val Ile Cys Asp Gly
 1 5 10 15
 Thr Cys Ser His Thr Leu Leu Cys Thr Pro Pro Gly Ser Pro Lys Ser
 20 25 30
 Pro His Ala Gly Ser Pro His Pro Ser Cys Ser Arg Lys His Val Arg
 35 40 45
 Lys Gln Ser Arg Arg Leu Leu Arg Gly Arg His Glu Ser Thr Leu Val
 50 55 60
 Leu Lys Pro Phe Pro Asn Val Leu Val Asp Cys Val Val Leu Pro Lys
 65 70 75 80
 Leu Pro Ala Ala Gly Ala Arg Glu Val Thr Pro Ala Gly Ala Ala Ala

	85	90	95
Gly Gly Ser Pro Arg Trp Leu Ala Leu Phe Leu Phe Cys Phe Phe Phe			
100	105	110	

<210> 3130

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3130

Met Ala Ile Lys Glu Ile Ser Asp Ala Leu Ile Asn Met Phe Val His			
1	5	10	15
Ser Ala Asp Phe Thr Gly Thr Ser Cys Met Ser Asp Pro Leu Ser Gly			
20	25	30	
Trp Trp Gly Val Glu Asp Glu Phe Ser Leu Asn Glu Ile Cys Cys Leu			
35	40	45	
Cys Gly Pro Asp Ser Pro Arg Lys Arg His Thr Arg Thr Val Pro Asp			
50	55	60	
Pro Glu Glu Glu Arg Ala Leu Gln Ser Arg Ala Arg Gln Pro Gly His			
65	70	75	80
Val Glu Arg Arg Gly Leu His Trp Glu Gly Leu Arg Thr Phe His Arg			
85	90	95	
Val Cys Arg Ala Ala Tyr Leu Pro Gly Gly Ser Val Leu Ala Gly Arg			
100	105	110	
Gly Met Arg Glu Pro Cys Thr Pro Ala Arg Ala Phe Gly Arg Ser Ser			
115	120	125	
Thr Gln Val Arg Lys Ser Pro Val Pro Leu Ser Val			
130	135	140	

<210> 3131

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3131

Met Trp Asp Pro Leu Ser Asp Gln Ala Ser Ser Leu Asn Val Arg Ser
 1 5 10 15
 Ala Gly Gln Gly Pro Gly Ile Trp Glu Leu Pro Gly Ser Gly Leu Gly
 20 25 30
 Cys Leu Arg Asp Pro Arg Ile Ser Ser Val Leu Cys Gly Leu Ala Glu
 35 40 45
 Gly Ser Gln Ala Lys Ser Ser Gly Ser Ala Val Thr Ala Gly Ala Leu
 50 55 60
 Gly Ser Gln Ala Thr Gly Asn Asn Ser Gly Leu Phe Lys Gln Lys Arg
 65 70 75 80
 Thr Leu Ser Lys Gly Ser Trp Gly Thr His Lys Ile Thr Lys Arg Ala
 85 90 95
 Glu Glu Tyr Ser Trp
 100

<210> 3132

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3132

Met His Ala Arg Tyr Ile Gly Thr Thr Val Phe Val Arg Gln Val Gly
 1 5 10 15
 Arg Tyr Leu Thr Leu Ala Ile Arg Met Pro Glu Asp Leu Ala Met Ser
 20 25 30
 Tyr Glu Glu Ser Gln Asp Leu Gln Leu Cys Val Asn Gly Cys Pro Leu
 35 40 45
 Ser Glu Arg Ile Asp Asp Gly Gln Gly Gln Val Ser Ala Ile Leu Gly
 50 55 60
 His Ser Leu Pro Arg Thr Ser Leu Val Gln Ala Trp Pro Gly Tyr Thr
 65 70 75 80
 Leu Glu Thr Ala Asn Thr Gln Cys His Glu Lys Met Pro Val Lys Asp
 85 90 95
 Ile Tyr Phe Gln Ser Cys Val Phe Asp Leu Leu Thr Thr Gly Asp Ala

```

          100          105          110
Asn Phe Thr Ala Ala Ala His Ser Ala Leu Glu Asp Val Glu Ala Leu
          115          120          125
His Pro Arg Lys Glu Arg Trp His Ile Phe Pro Ser Ser Gly Asn Gly
          130          135          140
Thr Pro Arg Gly Gly Ser Asp Leu Ser Val Ser Leu Gly Leu Thr Cys
145          150          155          160
Leu Ile Leu Ile Val Phe Leu
          165

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<210> 3133

<211> 156

<212> PRT

<213> Homo sapiens

<400> 3133

```

Met Glu Gly Val Val Gly Pro Gln Ala Ala Thr Cys Arg Leu Ala Ala
  1              5              10              15
His Cys Ile Met Leu Val Ser Pro Cys Ser Glu Arg Ala Pro Pro Leu
          20              25              30
Leu Gly Ile Leu Thr His Pro Met His Met Ala Ala Leu Leu Ala Gly
          35              40              45
Glu Pro Arg Arg Pro Gly Ser Pro Gln Val Pro Ile Cys Ser Ser Phe
          50              55              60
Thr His Trp Ile Leu Ala Arg Gly Gly Ser Arg Cys Asp Thr Val Tyr
          65              70              75              80
Ala Thr Phe Gly Ile Gly Leu Ile Leu Tyr Asp Thr Asn Thr Val Met
          85              90              95
Ala Ser Ser Gln Leu Leu Thr Ala Ser Gln Leu Leu Ser Val Tyr Tyr
          100             105             110
Pro Ile Asn Ser Pro Ala Thr Leu Arg Ala Gly Ile Val Thr Ser Ala
          115             120             125
Leu Thr Gly Glu Glu Thr Glu Ala Gln Arg Gly Leu Ala Asp Leu Ser
          130             135             140
Glu Ala Thr Gln Pro Val Ser Ser Arg Val Gly Ile

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145

150

155

<210> 3134

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3134

Met Ser Thr Ala Thr Arg Arg Val Cys Gly Lys Val Glu Gly Glu Pro
 1 5 10 15
 Glu Thr Pro Trp Ser Leu Leu Ser Leu Ala Gly Ser Phe Leu Pro Ala
 20 25 30
 Arg Ser Pro Gln Gly Thr Leu Glu Glu Glu Leu Ser Trp Ser Cys Arg
 35 40 45
 Gly Pro Gly Thr Gly Arg Ser Gly Gly Gly Pro Gln Gln Pro Arg Ile
 50 55 60
 Pro Glu Pro Ala Ala Arg Pro Gly Arg Ser Cys Ala Leu Pro Pro Pro
 65 70 75 80
 Gly Ala Arg Arg Ser Arg Gly Thr Phe Gln Glu Leu Pro Arg Ala Glu
 85 90 95
 Val Pro Gly Leu Gly Val Ala Ser Ser Cys Gln Ile Pro Cys Ser Pro
 100 105 110
 Gly Asp Pro Glu Lys His Arg Ala Ile Pro Asp Pro Gly Thr Phe Arg
 115 120 125
 Arg Leu Ala Ala Ile Trp Glu
 130 135

<210> 3135

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3135

Met Ser Asp His Ala Gly Met Pro Asp Leu Val Leu His Pro Trp Trp

1	5	10	15
Gln Val Ser Leu Ser Trp Gly Arg Gly Lys Tyr Pro Ser Thr Pro Ser			
20	25	30	
Pro Ser Pro Leu Val Ala Ser Pro Ala Phe Leu Gly Gly Lys Asn Pro			
35	40	45	
Pro Ile Ala Tyr Phe His Ala Pro Thr Ser Tyr Leu Cys Ala Pro Ile			
50	55	60	
Pro Tyr Phe His Ala Pro Ile Ser Tyr Leu Cys Thr Pro Ile Pro Tyr			
65	70	75	80
Phe Arg Ala Pro Thr Leu Ser Leu Leu Phe Trp Arg Gly Arg Lys Pro			
85	90	95	
His Pro Phe Ser Met Ser Leu Leu Phe Ser Leu Gly Leu Pro Pro Ser			
100	105	110	
Leu Cys Phe His Leu Pro Phe Leu Leu Leu Leu Pro			
115	120		

<210> 3136

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3136

Met Ser Ser Cys Pro Gly Cys Ala Leu Pro Lys Gly Met Cys Thr Ser			
1	5	10	15
Lys Pro Leu Leu Ala Glu Leu Pro Gln Asp His Ala Ser Gly Pro Pro			
20	25	30	
Pro Ala Thr Pro Ala Cys Leu Glu Gln Pro Pro His Arg Arg Pro Arg			
35	40	45	
Leu Ser Gly Pro Ala Gly Gly Ser Ala Arg Pro Pro Pro Arg Trp Trp			
50	55	60	
Arg Arg Ser Pro Leu Ala Ser Gly Arg Cys Pro Arg Tyr Gly Pro Gly			
65	70	75	80
Ser Thr Cys Ser Pro Ala His Pro Ser Leu Ala Arg His Leu Ala Glu			
85	90	95	
Gly Arg Gly Ala Asp Gly Trp Arg Ile Pro Ile Arg Thr Ala Ser His			

	100	105	110
Arg Gly Leu Ala Gly Cys Ala Pro Glu Arg			
115	120		

<210> 3137

<211> 499

<212> PRT

<213> Homo sapiens

<400> 3137

Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Lys Gly			
1	5	10	15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Thr Val Val Gln			
20	25	30	
Pro Gly Gly Ser Leu Arg Leu Ser Cys Thr Ala Thr Gly Phe Asp Met			
35	40	45	
Pro Ser Phe Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu			
50	55	60	
Glu Trp Val Ser Leu Ile Ser Trp Asp Gly Gly Ser Tyr Tyr His Ala			
65	70	75	80
Asp Ala Val Arg Gly Arg Phe Val Val Ser Arg Asp Asn Gly Arg His			
85	90	95	
Ser Leu Tyr Leu Gln Met Asn Asn Leu Arg Pro Glu Asp Thr Ala Leu			
100	105	110	
Tyr Tyr Cys Ala Lys Asp Pro Leu Arg Pro Asn Thr Tyr Tyr Tyr Asp			
115	120	125	
Ser Gly Asp Gly Ala Gly Ile Trp Gly Gln Gly Thr Met Val Thr Val			
130	135	140	
Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys			
145	150	155	160
Ser Thr Gln Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly			
165	170	175	
Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln			
180	185	190	
Gly Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp			

195	200	205
Leu Tyr Thr Thr Ser Ser Gln	Leu Thr Leu Pro Ala Thr Gln Cys Leu	
210	215	220
Ala Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser		
225	230	235
Gln Asp Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro		
245	250	255
Ser Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg		
260	265	270
Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu		
275	280	285
Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val		
290	295	300
Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro		
305	310	315
Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro		
325	330	335
Gly Cys Ala Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala		
340	345	350
Ala Tyr Pro Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser		
355	360	365
Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu		
370	375	380
Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly		
385	390	395
Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu		
405	410	415
Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser		
420	425	430
Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala		
435	440	445
Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu		
450	455	460
Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly		
465	470	475
Lys Pro Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly		

485 490 495
 Thr Cys Tyr

<210> 3138

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3138

Met Asn Leu Gly Gly Gly Ala Cys Ser Gln Pro Arg Ser Gly Cys Cys
 1 5 10 15
 Thr Pro Ala Trp Gly Thr Glu Arg Asp Ser Ala Ser Lys Lys Lys Lys
 20 25 30
 Lys Lys Lys Glu Arg Asn Phe Pro Glu Tyr Ser Ser Pro Pro Glu Pro
 35 40 45
 Ser Pro Phe Leu Arg Phe Val Pro Ile Ser Trp Thr Pro Tyr Glu Arg
 50 55 60
 Leu Gln Arg Leu Lys Trp Glu Asp Cys Leu Ser Leu Gly Gly Arg Gly
 65 70 75 80
 Cys Ser Glu Leu Trp Ser Tyr His Cys Thr Leu Ala Trp Ala Thr Glu
 85 90 95
 Arg Asp Leu Val Ser Lys Thr Ala Thr Thr Lys Asn Tyr Leu Gly Ile
 100 105 110

<210> 3139

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3139

Met Gly Leu Gln Pro Leu Glu Phe Ser Asp Cys Tyr Leu Asp Ser Pro
 1 5 10 15
 Trp Phe Arg Glu Arg Ile Arg Ala His Glu Ala Glu Leu Glu Arg Thr

	20		25		30										
Asn	Lys	Phe	Ile	Lys	Glu	Leu	Ile	Lys	Asp	Gly	Lys	Asn	Leu	Ile	Ala
	35		40		45										
Ala	Thr	Lys	Ser	Leu	Ser	Val	Ala	Gln	Arg	Lys	Phe	Ala	His	Ser	Leu
	50		55		60										
Arg	Asp	Phe	Lys	Phe	Glu	Phe	Ile	Gly	Asp	Ala	Val	Thr	Asp	Asp	Glu
65			70		75										80
Arg	Cys	Ile	Asp	Ala	Ser	Leu	Arg	Glu	Phe	Ser	Asn	Phe	Leu	Lys	Asn
			85		90										95
Leu	Glu	Glu	Gln	Arg	Glu	Ile	Met	Ala	Leu	Ser	Val	Thr	Glu	Thr	Leu
	100		105		110										
Ile	Lys	Pro	Leu	Glu	Lys	Phe	Arg	Lys	Glu	Gln	Leu	Gly	Ala	Val	Lys
	115		120		125										
Glu	Glu	Lys	Lys	Lys	Phe	Asp	Lys	Glu	Thr	Glu	Lys	Asn	Tyr	Ser	Leu
	130		135		140										
Ile	Asp	Lys	His	Leu	Asn	Leu	Ser	Ala	Lys	Lys	Lys	Asp	Ser	His	Leu
145			150		155										160
Gln	Glu	Val													

<210> 3140

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3140

Met	Glu	Pro	Pro	Asn	Cys	Pro	Ile	Ile	Tyr	Val	Ser	Val	Lys	Leu	Glu
1			5				10						15		
Phe	Ile	Arg	Leu	Val	Thr	Asn	Cys	Arg	Val	Ala	Leu	Gly	His	Ser	Gly
			20				25						30		
Phe	Cys	Ser	Leu	Lys	Ile	Tyr	Leu	Val	Ala	Ser	Gln	Ser	Thr	Leu	Val
			35				40						45		
Thr	Gln	His	Gln	Ser	Ala	Pro	Asp	Gly	Arg	Ser	Ser	Asp	Val	Lys	Ile
			50				55						60		
Gln	Val	Thr	Ala	Gln	Val	Asp	Val	Leu	Leu	Leu	Val	Pro	Gly	Val	Asp

65 70 75 80
 Phe Ser Ile Phe Pro Pro Val Leu Gly Asp Lys Gly Glu Leu Arg Val
 85 90 95
 Ser Phe Ser Pro Leu Ala Arg
 100

<210> 3141

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3141

Met Ser Leu Gln Phe Ser Gln Gly Leu Arg Ser Trp His Gly Glu Phe
 1 5 10 15
 Val Pro Gly Cys Cys Val Pro Arg Gly Val Leu Gly Glu Gly Phe Arg
 20 25 30
 Gly Ala Arg Gln Gly Val Leu Gly Ser Arg Val Pro Pro Gly Ser Val
 35 40 45
 Trp Glu Pro Cys Ile Thr Arg Gly Arg Arg Val Ser Leu Pro Gly Ser
 50 55 60
 Leu Leu Leu Cys Ile Arg Thr Thr Pro Gly Arg Leu Trp Gly Pro Thr
 65 70 75 80
 Leu His Pro Gln Gly Ser Met Arg Gln Gly Pro Arg Asn Ser Leu Arg
 85 90 95
 Pro Pro Pro Ser Lys Pro Ala Leu Ser Pro Ile Pro Ala His Pro Glu
 100 105 110
 Pro Ser Pro Ala Asn Leu Leu Leu Arg Ser Trp Gln Glu Ala Thr Val
 115 120 125
 Leu Leu Pro Phe Pro Phe Arg Leu Leu Arg Val Thr Asp Pro Asn Arg
 130 135 140
 Glu Ile Ser Ile Cys Leu Pro Ser Gly Cys Pro Ala Arg Arg Ala Leu
 145 150 155 160
 His Gly Val Pro Pro Leu Cys Glu Met Gly Gln Asp Pro Ser Ala Arg
 165 170 175
 Gly Ala Trp Gly Trp Gly

180

<210> 3142

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3142

Met Ala Ala Gly Asn His Ser Gly Gly Thr Cys Trp Pro Ala Leu His
 1 5 10 15
 Pro Val Pro Leu Trp Ala Pro Leu Pro Ser Asp Ser Gly His Pro Trp
 20 25 30
 Ala Pro Ser Leu Tyr Arg Pro Gly Gln Glu Glu Thr Thr Gly Asn His
 35 40 45
 Pro Lys Asp Asn Met Leu Val Gln Cys His Ser Ser Leu Ala Leu Trp
 50 55 60
 Val Pro Leu Trp Pro Val Pro Thr Gly Trp Leu Ile Leu Trp Phe Leu
 65 70 75 80
 Tyr His His Met Pro Ile Leu Arg His Ser Pro Ala Leu Ser Val Arg
 85 90 95
 Glu Cys Lys Phe Cys Asn Ile Phe
 100

<210> 3143

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3143

Met Thr Ala Arg His Pro Ala His Lys Gln Arg Gln Ser Arg Gly Phe
 1 5 10 15
 Ser Pro Leu Trp Arg Pro Arg Gln Ser Glu Arg Lys Gly Arg Gly Cys
 20 25 30
 Glu His Leu Arg Ile Tyr Ala Ala Gln Gly Ala Pro Glu Ser Cys Arg

35 40 45
 Glu Pro Gly Trp Ala Ser Ala Gly Asn Lys Gly Ser Pro Phe Cys Gly
 50 55 60
 Thr Gln Ala Leu Ala Asn Leu Lys His Asp Ser Pro Lys Ser Ala Gly
 65 70 75 80
 Ala Val Pro Glu Pro Ser Ala Ala Gln Cys Pro Arg Arg Thr Ser Asp
 85 90 95
 His Arg Asp Trp Asp Asn Val Lys Ala Gln Pro Ile Gln Ala His Arg
 100 105 110
 Pro Ala His Val Val Leu Gly Pro Ser Ala Cys Ala Leu Gly Lys Trp
 115 120 125
 Leu Pro Trp Asp Cys Ala Arg Ala Ala Ser
 130 135

<210> 3144

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3144

Met Ala Ala Gly Asn His Ser Gly Gly Thr Cys Trp Pro Ala Leu His
 1 5 10 15
 Pro Val Pro Leu Trp Ala Pro Leu Pro Ser Asp Ser Gly His Pro Trp
 20 25 30
 Ala Pro Ser Leu Tyr Arg Pro Gly Gln Glu Glu Thr Thr Gly Asn His
 35 40 45
 Pro Lys Asp Asn Met Leu Val Gln Cys His Ser Ser Leu Ala Leu Trp
 50 55 60
 Val Pro Leu Trp Pro Val Pro Thr Gly Trp Leu Ile Leu Trp Phe Leu
 65 70 75 80
 Tyr His His Met Pro Ile Leu Arg His Ser Pro Ala Leu Ser Val Arg
 85 90 95
 Glu Cys Lys Phe Cys Asn Ile Phe
 100

<210> 3145

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3145

```

Met Gln Leu Arg Gln Gly Leu Lys Tyr Thr Leu Val Ser Cys Ser Thr
  1              5              10              15
Leu Arg Leu Thr Arg Val Gly Lys Asn Leu Ala Leu Ala Asn Leu Trp
      20              25              30
Ser Asp Trp Phe Ser Ala Leu Glu Pro Cys Val Leu Leu Phe Lys Met
      35              40              45
Phe Ile Lys Thr Ile Arg Ala Leu Leu Asn Ile Asp Pro Tyr Gln Glu
      50              55              60
Phe Tyr Phe Cys Pro Cys Pro Val Ser Ser Glu Ala Cys Asp Leu Cys
      65              70              75              80
Ser Ala Phe Cys Pro Leu Lys His Val Ile Phe Val Pro Thr Pro Arg
      85              90              95
Ser Tyr Thr Pro Ser Pro Phe Ala Ile Leu Asn Lys Asn Leu Leu Val
      100             105             110
Leu Arg Leu Gly Pro Ala Ser Arg Ser Tyr
      115             120

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<210> 3146

<211> 223

<212> PRT

<213> Homo sapiens

<400> 3146

```

Met Val Gln Arg Glu Ser Leu Ser Ser Glu Gly Ala Leu Gly Gly Lys
  1              5              10              15
Glu Leu Gln Pro Arg Gly Trp Gly Thr His His Ser Arg Ile Pro Lys
      20              25              30
Ser Cys Thr Pro Ala Gly Arg Ile Leu Val Pro Ser His Tyr His His

```


35	40	45
Ser Pro Pro Val Pro Gln Glu Pro Pro Cys Arg Glu Gln Gln Glu Ser		
50	55	60
Gly Ser Phe Arg Ala Cys Arg Gly Leu Gly Ser Leu Ala Ser Lys Pro		
65	70	75
80		
Leu Gly Pro Gly Val Ser Leu Thr Arg Asn Gly Thr Gly Val Glu Pro		
85	90	95
100	105	110
Trp Gly Cys Gly Gln Ala Gly Leu Phe Pro Gly Pro Gly Asn Gly Ser		
115	120	125
Gln Gly Trp Ser Leu Ala Gln Val Ser Cys Pro Trp Leu Arg Ser Leu		
130	135	140
Ser Leu Pro Gly Leu Arg Ala His Leu Lys Ala Glu Ala Glu Leu Pro		
145	150	155
160		
Pro Lys Leu Pro Leu Gln Glu Glu Glu Pro Glu Asp Ser Gln Ser Glu		
165	170	175
Pro Ser Pro Ser Ala Lys Gln His Lys Lys Ala Lys Lys Arg Lys Ser		
180	185	190
Leu Gly Ala Pro Val Leu His Ala Val Ala Ser Met Val Ser Ala Pro		
195	200	205
Leu Glu Thr Leu Arg Leu Glu Arg Glu Trp Gln Ser Leu Asp Cys Ser		
210	215	220
Phe Ser Pro Cys Leu Trp Gly Pro Thr Trp His Asn Leu Ala Leu		

<210> 3147

<211> 174

<212> PRT

<213> Homo sapiens

<400> 3147

Met Ala Arg Val Gln Ala Pro Arg Leu Ala Ser Ala Cys Leu Ala His
1 5 10 15
Ser Cys Pro Leu Ser Gly Gly Gly Cys Ser Glu Glu Ser Gly Cys Arg
20 25 30
Leu Thr Ser Pro Glu Lys Pro Glu Pro Lys Met Glu Ile Lys Phe Glu

35	40	45
Met Leu Asp Ala Ser Gly Asp Glu Ser Gly Gln Lys Ser Ser Lys Arg		
50	55	60
Ala Arg Leu Gln Gly Ala Asn Gly Ala Pro Pro Gly Gly Ser Ala Pro		
65	70	75
Ser Pro Pro Ala Ser Ser Ser Ser Ser Ser Ser Ser Trp Pro Gly		
85	90	95
Ser Arg Leu Arg Cys Leu Ser Leu Gln Glu Val Gly Leu Val Pro Phe		
100	105	110
Gly Tyr Leu His Ser Pro Ser Pro His Ser Pro Ser Trp His Phe Pro		
115	120	125
Cys Cys Ser Phe Met Glu Cys Ala Ser Gly Ser Pro Thr Arg Leu Glu		
130	135	140
Pro Leu Glu Cys Ile Thr Arg Asp Leu Thr Ile Cys Val Ser Leu Arg		
145	150	155
Pro Ala Gln Pro Pro His Thr Gly Thr Cys Arg Glu Trp Met		
165	170	

<210> 3148

<211> 435

<212> PRT

<213> Homo sapiens

<400> 3148

Met Lys Trp Gly Trp Val Phe Leu Gly Ala Leu Leu Ser Leu Gly Asn
1 5 10 15
Met Ser Trp Gly Glu Lys Gly Leu Glu Ile Pro Glu Tyr Asp Gly Lys
20 25 30
Asp Arg Val His Asp Leu Asn Ala Lys Asn Tyr Lys Ser Val Met Lys
35 40 45
Lys Tyr Asp Val Met Val Ile Tyr Tyr His Ala His Val Glu Ser Asn
50 55 60
Lys Asn Ala Gln Lys Ala Phe Glu Met Glu Glu Leu Ala Leu Glu Leu
65 70 75 80
Ala Ala Gln Val Leu Asp Asp Leu Asp Asp Glu Asp Ile Gly Phe Gly

	85		90		95
Leu Val Asp Glu Lys Lys Asp Leu Ser Val Ala Lys Lys Leu Gly Leu					
	100		105		110
Asp Glu Val Glu Ser Ile Tyr Ile Phe Val Asp Asn Glu Ile Ile Glu					
	115		120		125
Tyr Asp Gly Glu Leu Ala Ala Asp Thr Leu Val Glu Phe Leu Tyr Asp					
	130		135		140
Val Ile Glu Asp Pro Val Glu Ile Ile Asp Asn Glu Arg Glu Leu Lys					
145		150		155	160
Gly Phe His Asn Ile Asp Glu Asp Ile Lys Leu Val Gly Tyr Phe Lys					
	165		170		175
Ser Glu Lys Ser Pro His Phe Ile Glu Tyr Asp Asp Ala Ala Glu Glu					
	180		185		190
Phe His Pro Phe Ile Lys Phe Phe Ala Thr Phe Asp Ala Lys Ile Ala					
	195		200		205
Lys Lys Leu Lys Met Lys Leu Asn Glu Val Asp Phe Tyr Glu Pro Phe					
	210		215		220
Met Glu Glu Pro Val Thr Ile Pro Gly Gln Pro Tyr Ser Glu Ala Glu					
225		230		235	240
Leu Val Asp Tyr Ile Glu Glu His Asp Arg Pro Thr Leu Arg Lys Leu					
	245		250		255
Glu Pro His Ser Met Tyr Glu Thr Trp Glu Asp Asp Ile Asp Gly Glu					
	260		265		270
His Ile Val Ala Phe Ala Glu Glu Asp Asp Pro Asp Gly Tyr Glu Phe					
	275		280		285
Leu Glu Ile Leu Lys Glu Val Ala Arg Glu Asn Thr Asp Asn Ala Asp					
	290		295		300
Leu Ser Ile Ile Trp Ile Asp Pro Asp Asp Phe Pro Leu Leu Val Pro					
305		310		315	320
Tyr Trp Glu Lys Thr Phe Gly Ile Asp Leu Gly Ser Pro Gln Ile Gly					
	325		330		335
Val Val Asp Val Glu Asp Ala Asp Ser Val Trp Met Glu Met Asp Asp					
	340		345		350
Asp Glu Asp Met Pro Thr Ala Asp Glu Leu Glu Asp Trp Ile Glu Asp					
	355		360		365
Val Leu Ser Gly Lys Ile Asp Pro Asp Asp Asp Asp Asp Asp Asp					

370 375 380
 Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp
 385 390 395 400
 Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp
 405 410 415
 Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp
 420 425 430
 Asp Asp Glu
 435

<210> 3149

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3149

Met Gly Asn Tyr Leu Leu Arg Lys Leu Ser Cys Leu Gly Glu Asn Gln
 1 5 10 15
 Lys Lys Pro Lys Lys Gly Asn Pro Asp Glu Glu Arg Lys Arg Gln Glu
 20 25 30
 Met Thr Thr Phe Glu Arg Lys Leu Gln Asp Arg Asp Lys Lys Ser Gln
 35 40 45
 Glu Val Ser Ser Thr Ser Asn Gln Glu Asn Glu Asn Gly Ser Gly Ser
 50 55 60
 Glu Glu Val Cys Tyr Thr Val Ile Asn His Ile Pro His Gln Arg Ser
 65 70 75 80
 Ser Leu Ser Ser Asn Asp Asp Gly Tyr Glu Asn Ile Asp Ser Leu Thr
 85 90 95
 Arg Lys Val Arg Gln Phe Arg Glu Arg Ser Glu Thr Glu Tyr Ala Leu
 100 105 110
 Leu Arg Thr Ser Val Ser Arg Pro Cys Ser Cys Thr His Glu His Asp
 115 120 125
 Tyr Glu Val Val Phe Pro His
 130 135

<210> 3150

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3150

```

Met Ala Ser Val Lys Asn Arg Arg Val Val Ala Asp Asn Gly Cys Leu
  1              5              10              15
Pro Gln Thr His Pro Gln Gln Leu Cys Arg His Ser Ser Thr Trp Pro
      20              25              30
Leu Ala Leu Gly Met Gln Leu Leu Ser Ser Glu Ser Ile Arg Phe Ile
      35              40              45
Phe Phe Phe Leu Arg Gln Ser Leu Val Leu Ser Pro Arg Leu Glu Cys
      50              55              60
Ser Gly Val Met Leu Ala His Cys Asn Leu Cys Leu Pro Gly Ser Ser
      65              70              75              80
Asp Ser Pro Thr Ser Ala Ser Arg Val Ala Trp Thr Thr Gly Thr Arg
      85              90              95
His Tyr Ala Gln Leu Ile Val Ser Leu Val Glu Thr Val Phe Arg His
      100             105             110
Phe Gly Gln Thr Gly Leu Glu Leu Leu Thr
      115             120

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<210> 3151

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3151

```

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Ala Gly
  1              5              10              15
Val Gln Ser Leu Leu Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
      20              25              30
Pro Gly Ser Ser Val Thr Val Ser Cys Glu Ala Ser Gly Asp Ser Ser

```

35	40	45
Pro Thr Tyr Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu		
50	55	60
Glu Trp Met Gly Asp Ile Thr Pro Val Phe Gly Thr Lys Glu Met Ser		
65	70	75
Gln Lys Phe Gln Asp Arg Val Ser Ile Thr Ala Asp Ser Val Ser Val		
85	90	95
Thr Ala Asp Thr Arg Arg Thr Val Tyr Leu Glu Val Arg Arg Leu Thr		
100	105	110
Ser Asp Asp Ser Ala Val Tyr Tyr Cys Ala Lys Ser Glu Thr Asp His		
115	120	125
Ser Phe Tyr Tyr Tyr Ile Glu Leu Trp Gly Gln Gly Thr Thr Val Thr		
130	135	140
Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro		
145	150	155
Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val		
165	170	175
Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala		
180	185	190
Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly		
195	200	205
Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly		
210	215	220
Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys		
225	230	235
Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys		
245	250	255
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu		
260	265	270
Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu		
275	280	285
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys		
290	295	300
Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys		
305	310	315
Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu		

```

          325              330              335
Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
          340              345              350
Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
          355              360              365
Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
          370              375              380
Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
385              390              395              400
Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
          405              410              415
Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
          420              425              430
Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
          435              440              445
Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
          450              455              460
His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465              470              475

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<210> 3152

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3152

```

Met Cys Ala Gly Val His Val Phe Thr Phe Pro Pro Ala Glu Thr Ser
  1              5              10              15
Asp Ala Val Lys Pro Ser His Ile Lys Gln Tyr Thr Leu Thr Gly His
          20              25              30
Ile Ala Leu Trp Asp Ser Lys Val Phe Cys Lys Phe Trp Ser Leu Glu
          35              40              45
Gly Phe Leu Glu Ser Gly Phe Cys Leu Val Cys Glu His Phe Cys Gln
          50              55              60
Phe Leu Lys His Gly Leu Pro Cys Leu Leu Pro Arg Cys Arg Ala Val

```

65 70 75 80
 Ser Phe Asn His Gly His Pro Leu Ser His His Leu Lys Gly His Thr
 85 90 95
 Phe His Val Glu Cys Gly Arg Leu Glu Ser Leu Lys Asn Thr Leu Phe
 100 105 110
 Phe Pro Ile Thr Leu Cys Ser Phe Leu Gly Asn Met Cys Ser Ile Phe
 115 120 125
 Val Ser His Ser Glu Phe Phe Trp Ala Val Cys Arg Trp Ala Trp Thr
 130 135 140
 Asn Phe Arg Ala
 145

<210> 3153

<211> 336

<212> PRT

<213> Homo sapiens

<400> 3153

Met Tyr Thr Val Leu Thr Gly Thr Pro Pro Phe Met Ala Ser Pro Leu
 1 5 10 15
 Ser Glu Met Tyr Gln Asn Ile Arg Glu Gly His Tyr Pro Glu Pro Ala
 20 25 30
 His Leu Ser Ala Asn Ala Arg Arg Leu Ile Val His Leu Leu Ala Pro
 35 40 45
 Asn Pro Ala Glu Arg Pro Ser Leu Asp His Leu Leu Gln Asp Asp Phe
 50 55 60
 Phe Thr Gln Gly Phe Thr Pro Asp Arg Leu Pro Ala His Ser Cys His
 65 70 75 80
 Ser Pro Pro Ile Phe Ala Ile Pro Pro Pro Leu Gly Arg Ile Phe Arg
 85 90 95
 Lys Val Gly Gln Arg Leu Leu Thr Gln Cys Arg Pro Pro Cys Pro Phe
 100 105 110
 Thr Pro Lys Glu Ala Ser Gly Pro Gly Glu Gly Gly Pro Asp Pro Asp
 115 120 125
 Ser Met Glu Trp Asp Gly Glu Ser Ser Leu Ser Ala Lys Glu Val Pro

130	135	140	
Cys Leu Glu Gly Pro Ile His Leu Val Ala Gln Gly Ile Leu Gln Ser			
145	150	155	160
Asp Leu Ala Gly Pro Glu Gly Ser Arg Arg Pro Glu Val Glu Ala Ala			
	165	170	175
Leu Arg His Leu Gln Leu Cys Leu Asp Val Gly Pro Pro Ala Thr Gln			
	180	185	190
Asp Pro Leu Gly Glu Gln Gln Pro Ile Leu Trp Ala Pro Lys Trp Val			
195	200	205	
Asp Tyr Ser Ser Lys Tyr Gly Phe Gly Tyr Gln Leu Leu Asp Gly Gly			
210	215	220	
Arg Thr Gly Arg His Pro His Gly Pro Val Thr Pro Arg Arg Glu Gly			
225	230	235	240
Thr Leu Pro Thr Pro Val Pro Pro Ala Gly Pro Gly Leu Cys Leu Leu			
	245	250	255
Arg Phe Leu Ala Ser Glu His Ala Leu Leu Leu Leu Phe Ser Asn Gly			
	260	265	270
Met Val Gln Val Ser Phe Ser Gly Val Pro Ala Gln Leu Val Leu Ser			
275	280	285	
Gly Glu Gly Glu Gly Leu Gln Leu Thr Leu Trp Glu Gln Gly Ser Pro			
290	295	300	
Gly Thr Ser Tyr Ser Leu Asp Val Pro Gln Ser His Gly Cys Ala Pro			
305	310	315	320
Thr Thr Gly Gln His Leu His His Ala Leu Arg Met Leu Gln Ser Ile			
	325	330	335

<210> 3154

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3154

Met Cys Pro Ser Trp Thr Gly Gly Arg Ala Gly His Arg Asp Pro Gly
1 5 10 15
Ser Phe Arg Ser Arg Asp Trp Arg Val Gly Arg His Pro Trp Glu His

20 25 30
 Pro Cys Pro Pro Ser Ala Ala Gln Gly Arg Gly Gly Glu Pro Gly Phe
 35 40 45
 Gly Pro His Leu Ile Lys Ser Pro Pro Gln Thr Pro Gln Ala Asn Thr
 50 55 60
 Gly Arg Trp Ala Val Thr Pro Arg Ser Pro Ala Ala Ala Thr Leu Leu
 65 70 75 80
 Trp Thr Ser Ser Ser Ser Ser Ala Thr Ile Thr Arg Trp Pro Ser Arg
 85 90 95
 Trp Ala Gly Ala Thr
 100

<210> 3155

<211> 505

<212> PRT

<213> Homo sapiens

<400> 3155

Met Pro Gln Gln Leu Leu Ile Thr Leu Pro Thr Glu Ala Ser Thr Trp
 1 5 10 15
 Val Lys Leu Gln His Pro Lys Lys Ala Val Glu Gly Ala Pro Leu Trp
 20 25 30
 Glu Asp Val Thr Lys Met Phe Glu Gly Glu Ala Leu Leu Ser Gln Asp
 35 40 45
 Ala Glu Asp Val Lys Thr Gln Arg Glu Ser Leu Glu Asp Glu Val Thr
 50 55 60
 Pro Gly Leu Pro Thr Ala Glu Ser Gln Glu Leu Leu Thr Phe Lys Asp
 65 70 75 80
 Ile Ser Ile Asp Phe Thr Gln Glu Glu Trp Gly Gln Leu Ala Pro Ala
 85 90 95
 His Gln Asn Leu Tyr Arg Glu Val Met Leu Glu Asn Tyr Ser Asn Leu
 100 105 110
 Val Ser Val Gly Tyr Gln Leu Ser Lys Pro Ser Val Ile Ser Gln Leu
 115 120 125
 Glu Lys Gly Glu Glu Pro Trp Met Ala Glu Lys Glu Gly Pro Gly Asp

130	135	140	
Pro Ser Ser Asp Leu Lys Ser Lys Ile Glu Thr Ile Glu Ser Thr Ala			
145	150	155	160
Lys Ser Thr Ile Ser Gln Glu Arg Leu Tyr His Gly Ile Met Met Glu			
	165	170	175
Ser Phe Met Arg Asp Asp Ile Ile Tyr Ser Thr Leu Arg Lys Val Ser			
	180	185	190
Thr Tyr Asp Asp Val Leu Glu Arg His Gln Glu Thr Cys Met Arg Asp			
	195	200	205
Val Arg Gln Ala Ile Leu Thr His Lys Lys Arg Val Gln Glu Thr Asn			
210	215	220	
Lys Phe Gly Glu Asn Ile Ile Val His Ser Asn Val Ile Ile Glu Gln			
225	230	235	240
Arg His His Lys Tyr Asp Thr Pro Thr Lys Arg Asn Thr Tyr Lys Leu			
	245	250	255
Asp Leu Ile Asn His Pro Thr Ser Tyr Ile Arg Thr Lys Thr Tyr Glu			
	260	265	270
Cys Asn Ile Cys Glu Lys Ile Phe Lys Gln Pro Ile His Leu Thr Glu			
	275	280	285
His Met Arg Ile His Thr Gly Glu Lys Pro Phe Arg Cys Lys Glu Cys			
	290	295	300
Gly Arg Ala Phe Ser Gln Ser Ala Ser Leu Ser Thr His Gln Arg Ile			
305	310	315	320
His Thr Gly Glu Lys Pro Phe Glu Cys Glu Glu Cys Gly Lys Ala Phe			
	325	330	335
Arg His Arg Ser Ser Leu Asn Gln His His Arg Thr His Thr Gly Glu			
	340	345	350
Lys Pro Tyr Val Cys Asp Lys Cys Gln Lys Ala Phe Ser Gln Asn Ile			
	355	360	365
Ser Leu Val Gln His Leu Arg Thr His Ser Gly Glu Lys Pro Phe Thr			
	370	375	380
Cys Asn Glu Cys Gly Lys Thr Phe Arg Gln Ile Arg His Leu Ser Glu			
385	390	395	400
His Ile Arg Ile His Thr Gly Glu Lys Pro Tyr Ala Cys Thr Ala Cys			
	405	410	415

Cys Lys Thr Phe Ser His Arg Ala Tyr Leu Thr His His Gln Arg Ile
 420 425 430
 His Thr Gly Glu Arg Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe
 435 440 445
 Arg Gln Arg Ile His Leu Ser Asn His Lys Thr Val His Thr Gly Val
 450 455 460
 Lys Ala Tyr Glu Cys Asn Arg Cys Gly Lys Ala Tyr Arg His Asp Ser
 465 470 475 480
 Ser Phe Lys Lys His Gln Arg His His Thr Gly Glu Lys Pro Tyr Glu
 485 490 495
 Cys Asn Glu Cys Gly Lys Ala Phe Ser
 500 505

<210> 3156

<211> 328

<212> PRT

<213> Homo sapiens

<400> 3156

Met Ala Gly Val Glu Glu Val Ala Ala Ser Gly Ser His Leu Asn Gly
 1 5 10 15
 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Ala Ala Ser Thr Ala Glu
 20 25 30
 Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys Lys Lys Ser Lys Gly Pro
 35 40 45
 Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val
 50 55 60
 Asp Glu Val Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu
 65 70 75 80
 Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly Asp Gly Asp Gly Ala Thr
 85 90 95
 Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Pro Lys Val Gln
 100 105 110
 Thr Asp Pro Pro Ser Val Pro Ile Cys Asp Leu Tyr Pro Asn Gly Val
 115 120 125

Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro Pro Thr Gln Asp Gly Arg
 130 135 140
 Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu Lys Lys Ala Leu Asp Gln
 145 150 155 160
 Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg Glu Ala Ala Glu Ala His
 165 170 175
 Arg Gln Val Arg Lys Tyr Val Met Ser Trp Ile Lys Pro Gly Met Thr
 180 185 190
 Met Ile Glu Ile Cys Glu Lys Leu Glu Asp Cys Ser Arg Lys Leu Ile
 195 200 205
 Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala Phe Pro Thr Gly Cys Ser
 210 215 220
 Leu Asn Asn Cys Ala Ala His Tyr Thr Pro Asn Ala Gly Asp Thr Thr
 225 230 235 240
 Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile Asp Phe Gly Thr His Ile
 245 250 255
 Ser Gly Arg Ile Ile Asp Cys Ala Phe Thr Val Thr Phe Asn Pro Lys
 260 265 270
 Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp Ala Thr Asn Thr Gly Ile
 275 280 285
 Lys Cys Ala Gly Ile Asp Val Arg Leu Cys Asp Val Gly Glu Ala Ile
 290 295 300
 Gln Glu Val Met Glu Ser Tyr Glu Val Glu Ile Asp Gly Lys Thr Tyr
 305 310 315 320
 Gln Arg Arg Arg Ser Ile Cys Asn
 325

<210> 3157

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3157

Met Val His Val Glu Cys Ile Lys Pro Thr Gly Pro Glu Ser Leu Leu
 1 5 10 15

Thr Gly Asp Phe Leu Glu Met Glu Ser Arg Ser Val Ala Gln Ala Gly
 20 25 30
 Glu Cys Asn Gly Ala Ile Leu Ala His Cys Asn Leu His Leu Leu Gly
 35 40 45
 Ser Ser Asp Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Ile Thr Gly
 50 55 60
 Gly Cys His His Thr Gln Leu Ser Ile Val Phe Leu Ala Glu Met Gly
 65 70 75 80
 Phe His His Phe Ala Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Tyr
 85 90 95
 Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ala Arg Gly
 100 105 110
 Phe Leu Met Trp Leu Leu Leu Leu Arg Arg Pro Cys Pro
 115 120 125

<210> 3158

<211> 178

<212> PRT

<213> Homo sapiens

<400> 3158

Met Pro Leu Ile Leu Ser Ile Leu Ser Gly Asn Val Pro Arg Leu Leu
 1 5 10 15
 Leu Pro Gly Ser Trp Leu His Asn Leu Ile Phe Pro Lys Arg Val Ala
 20 25 30
 Ile Pro Ala Ala Pro Gly Thr Ser Glu Pro Leu Pro Leu His Phe Trp
 35 40 45
 Cys Ala Ser Glu Ser Arg Ser Ala Cys Trp Arg Arg Leu Trp Pro Arg
 50 55 60
 Pro Pro Gly Arg Phe Leu Arg Met Gly Ser Thr Arg Gly Ala Glu Pro
 65 70 75 80
 Gly Thr Lys Trp Thr Ala His Val Cys Cys His Glu Ala Trp Gln Gln
 85 90 95
 His His Thr Pro Leu Cys Gly Val Leu Leu Ala Gly Gly Gln Arg Arg
 100 105 110

Ala Leu Ser Ser Pro Ala Thr Ala Ala Ala His Ser Arg Leu Leu Pro
 115 120 125
 Gly His Ile Ala His Trp Pro Gly His Ala Pro Val Leu Trp Gln Pro
 130 135 140
 Leu Val Pro Asp Asn Phe His Pro Asp Ser Gly Pro Cys Arg Leu Gly
 145 150 155 160
 Ala Asn Thr Arg Ser Pro Ser Gln Ala Phe Leu Pro Leu Pro Ser Ala
 165 170 175
 Ala Leu

<210> 3159

<211> 252

<212> PRT

<213> Homo sapiens

<400> 3159

Met Ile Lys Glu Ala Gly Ala Ile Ile Ser Thr Arg His Cys Asn Pro
 1 5 10 15
 Gln Asn Gly Asp Arg Cys Val Ala Ala Leu Ala Arg Val Glu Cys Thr
 20 25 30
 His Phe Leu Trp Pro Met Cys Ile Gly Glu Val Ala His Val Ser Ala
 35 40 45
 Glu Ile Thr Tyr Thr Ser Lys His Ser Val Glu Val Gln Val Asn Met
 50 55 60
 Met Ser Glu Asn Ile Leu Thr Gly Ala Lys Lys Leu Thr Asn Lys Ala
 65 70 75 80
 Thr Leu Trp Tyr Ala Pro Leu Ser Leu Thr Asn Val Asp Lys Val Leu
 85 90 95
 Glu Glu Pro Pro Val Val Tyr Phe Arg Gln Glu Gln Glu Glu Glu Gly
 100 105 110
 Gln Lys Arg Tyr Lys Thr Gln Lys Leu Glu Arg Met Glu Thr Asn Trp
 115 120 125
 Arg Asn Gly Asp Ile Val Gln Pro Val Leu Asn Pro Glu Pro Asn Thr
 130 135 140

Val Ser Tyr Ser Gln Ser Ser Leu Ile His Leu Val Gly Pro Ser Asp
 145 150 155 160
 Cys Thr Leu His Ser Phe Val His Glu Gly Val Thr Met Lys Val Met
 165 170 175
 Asp Glu Val Ala Gly Ile Leu Ala Ala Arg His Cys Lys Thr Asn Leu
 180 185 190
 Val Thr Ala Ser Met Glu Ala Ile Asn Phe Asp Asn Lys Ile Arg Lys
 195 200 205
 Gly Cys Ile Lys Thr Ile Ser Gly Arg Met Thr Phe Thr Ser Asn Lys
 210 215 220
 Ser Val Glu Ile Glu Val Leu Val Asp Ala Asp Cys Val Val Asp Ser
 225 230 235 240
 Ser Gln Lys Arg Tyr Arg Ala Ala Ser Val Phe Thr
 245 250

<210> 3160

<211> 458

<212> PRT

<213> Homo sapiens

<400> 3160

Met Glu Leu Pro Leu Gly Arg Cys Asp Asp Ser Arg Thr Trp Asp Asp
 1 5 10 15
 Asp Ser Asp Pro Glu Ser Glu Thr Asp Pro Asp Ala Gln Ala Lys Ala
 20 25 30
 Tyr Val Ala Arg Val Leu Ser Pro Pro Lys Ser Gly Leu Ala Phe Ser
 35 40 45
 Arg Pro Ser Gln Leu Ser Thr Pro Ala Ala Ser Pro Ser Ala Ser Glu
 50 55 60
 Pro Arg Ala Ala Ser Arg Val Ser Ala Val Ser Glu Pro Gly Leu Leu
 65 70 75 80
 Ser Leu Pro Pro Glu Leu Leu Leu Glu Ile Cys Ser Tyr Leu Asp Ala
 85 90 95
 Arg Leu Val Leu His Val Leu Ser Arg Val Cys His Ala Leu Arg Asp
 100 105 110

Leu Val Ser Asp His Val Thr Trp Arg Leu Arg Ala Leu Arg Arg Val
 115 120 125
 Arg Ala Pro Tyr Pro Val Val Glu Glu Lys Asn Phe Asp Trp Pro Ala
 130 135 140
 Ala Cys Ile Ala Leu Glu Gln His Leu Ser Arg Trp Ala Glu Asp Gly
 145 150 155 160
 Arg Trp Val Glu Tyr Phe Cys Leu Ala Glu Gly His Val Ala Ser Val
 165 170 175
 Asp Ser Val Leu Leu Leu Gln Gly Gly Ser Leu Cys Leu Ser Gly Ser
 180 185 190
 Arg Asp Arg Asn Val Asn Leu Trp Asp Leu Arg Gln Leu Gly Thr Glu
 195 200 205
 Ser Asn Gln Val Leu Ile Lys Thr Leu Gly Thr Lys Arg Asn Ser Thr
 210 215 220
 His Glu Gly Trp Val Trp Ser Leu Ala Ala Gln Asp His Arg Val Cys
 225 230 235 240
 Ser Gly Ser Trp Asp Ser Thr Val Lys Leu Trp Asp Met Ala Ala Asp
 245 250 255
 Gly Gln Gln Phe Gly Glu Ile Lys Ala Ser Ser Ala Val Leu Cys Leu
 260 265 270
 Ser Tyr Leu Pro Asp Ile Leu Val Thr Gly Thr Tyr Asp Lys Lys Val
 275 280 285
 Thr Ile Tyr Asp Pro Arg Ala Gly Pro Ala Leu Leu Lys His Gln Gln
 290 295 300
 Leu His Ser Arg Pro Val Leu Thr Leu Leu Ala Asp Asp Arg His Ile
 305 310 315 320
 Ile Ser Gly Ser Glu Asp His Thr Leu Val Val Val Asp Arg Arg Ala
 325 330 335
 Asn Ser Val Leu Gln Arg Leu Gln Leu Asp Ser Tyr Leu Leu Cys Met
 340 345 350
 Ser Tyr Gln Glu Pro Gln Leu Trp Ala Gly Asp Asn Gln Gly Leu Leu
 355 360 365
 His Val Phe Ala Asn Arg Asn Gly Cys Phe Gln Leu Ile Arg Ser Phe
 370 375 380
 Asp Val Gly His Ser Phe Pro Ile Thr Gly Ile Gln Tyr Ser Val Gly

385 390 395 400
 Ala Leu Tyr Thr Thr Ser Thr Asp Lys Thr Ile Arg Val His Val Pro
 405 410 415
 Thr Asp Pro Pro Arg Thr Ile Cys Thr Arg Arg His Asp Asn Gly Leu
 420 425 430
 Asn Arg Val Cys Ala Glu Gly Asn Leu Val Val Ala Gly Ser Gly Asp
 435 440 445
 Leu Ser Leu Glu Val Trp Arg Leu Gln Ala

450 455

<210> 3161

<211> 631

<212> PRT

<213> Homo sapiens

<400> 3161

Met Phe Ser Pro Asp Gln Ser Ser Met Pro Met Ser Asn Val Gly Thr
 1 5 10 15
 Thr Arg Leu Ser His Met Pro Leu Pro Pro Ala Ser Asn Pro Pro Gly
 20 25 30
 Thr Val His Ser Ala Pro Asn Arg Gly Leu Gly Arg Arg Pro Ser Asp
 35 40 45
 Leu Thr Ile Ser Ile Asn Gln Met Gly Ser Pro Gly Met Gly His Leu
 50 55 60
 Lys Ser Pro Thr Leu Ser Gln Val His Ser Pro Leu Val Thr Ser Pro
 65 70 75 80
 Ser Ala Asn Leu Lys Ser Pro Gln Thr Pro Ser Gln Met Val Pro Leu
 85 90 95
 Pro Ser Ala Asn Pro Pro Gly Pro Leu Lys Ser Pro Gln Val Leu Gly
 100 105 110
 Ser Ser Leu Ser Val Arg Ser Pro Thr Gly Ser Pro Ser Arg Leu Lys
 115 120 125
 Ser Pro Ser Met Ala Val Pro Ser Pro Gly Trp Val Ala Ser Pro Lys
 130 135 140

Thr Ala Met Pro Ser Pro Gly Val Ser Gln Asn Lys Gln Pro Pro Leu
 145 150 155 160
 Asn Met Asn Ser Ser Thr Thr Leu Ser Asn Met Glu Gln Gly Thr Leu
 165 170 175
 Pro Pro Ser Gly Pro Arg Ser Ser Ser Ser Ala Pro Pro Ala Asn Pro
 180 185 190
 Pro Ser Gly Leu Met Asn Pro Ser Leu Pro Phe Thr Ser Ser Pro Asp
 195 200 205
 Pro Thr Pro Ser Gln Asn Pro Leu Ser Leu Met Met Thr Gln Met Ser
 210 215 220
 Lys Tyr Ala Met Pro Ser Ser Thr Pro Leu Tyr His Asn Ala Ile Lys
 225 230 235 240
 Thr Ile Ala Thr Ser Asp Asp Glu Leu Leu Pro Asp Arg Pro Leu Leu
 245 250 255
 Pro Pro Pro Pro Pro Pro Gln Gly Ser Gly Pro Gly Ile Ser Asn Ser
 260 265 270
 Gln Pro Ser Gln Met His Leu Asn Ser Ala Ala Ala Gln Ser Pro Met
 275 280 285
 Gly Met Asn Leu Pro Gly Gln Gln Pro Leu Ser His Glu Pro Pro Pro
 290 295 300
 Ala Met Leu Pro Ser Pro Thr Pro Leu Gly Ser Asn Ile Pro Leu His
 305 310 315 320
 Pro Asn Ala Gln Gly Thr Gly Gly Pro Pro Gln Asn Ser Met Met Met
 325 330 335
 Ala Pro Gly Gly Pro Asp Ser Leu Asn Ala Pro Cys Gly Pro Val Pro
 340 345 350
 Ser Ser Ser Gln Met Met Pro Phe Pro Pro Arg Leu Gln Gln Pro His
 355 360 365
 Gly Ala Met Ala Pro Thr Gly Gly Gly Gly Gly Gly Pro Gly Leu Gln
 370 375 380
 Gln His Tyr Pro Ser Gly Met Ala Leu Pro Pro Glu Asp Leu Pro Asn
 385 390 395 400
 Gln Pro Pro Gly Pro Met Pro Pro Gln Gln His Leu Met Gly Lys Ala
 405 410 415
 Met Ala Gly Arg Met Gly Asp Ala Tyr Pro Pro Gly Val Leu Pro Gly
 420 425 430

Val Ala Ser Val Leu Asn Asp Pro Glu Leu Ser Glu Val Ile Arg Pro
 435 440 445
 Thr Pro Thr Gly Ile Pro Glu Phe Asp Leu Ser Arg Ile Ile Pro Ser
 450 455 460
 Glu Lys Pro Ser Ser Thr Leu Gln Tyr Phe Pro Lys Ser Glu Asn Gln
 465 470 475 480
 Pro Pro Lys Ala Gln Pro Pro Asn Leu His Leu Met Asn Leu Gln Asn
 485 490 495
 Met Met Ala Glu Gln Thr Pro Ser Arg Pro Pro Asn Leu Pro Gly Gln
 500 505 510
 Gln Gly Val Gln Arg Gly Leu Asn Met Ser Met Cys His Pro Gly Gln
 515 520 525
 Met Ser Leu Leu Gly Arg Thr Gly Val Pro Pro Gln Gln Gly Met Val
 530 535 540
 Pro His Gly Leu His Gln Gly Val Met Ser Pro Pro Gln Gly Leu Met
 545 550 555 560
 Thr Gln Gln Asn Phe Met Leu Met Lys Gln Arg Gly Val Gly Gly Glu
 565 570 575
 Val Tyr Ser Gln Pro Pro His Met Leu Ser Pro Gln Gly Ser Leu Met
 580 585 590
 Gly Pro Pro Pro Gln Gln Asn Leu Met Val Ser His Pro Leu Arg Gln
 595 600 605
 Arg Ser Val Ser Leu Asp Ser Gln Met Gly Tyr Leu Pro Ala Pro Gly
 610 615 620
 Gly Met Ala Asn Leu Pro Phe
 625 630

<210> 3162

<211> 542

<212> PRT

<213> Homo sapiens

<400> 3162

Met Pro Arg Arg Gly Leu Ile Leu His Thr Arg Thr His Trp Leu Leu
 1 5 10 15

Leu Gly Leu Ala Leu Leu Cys Ser Leu Val Leu Phe Met Tyr Leu Leu
 20 25 30
 Glu Cys Ala Pro Gln Thr Asp Gly Asn Ala Ser Leu Pro Gly Val Val
 35 40 45
 Gly Glu Asn Tyr Gly Lys Glu Tyr Tyr Gln Ala Leu Leu Gln Glu Gln
 50 55 60
 Glu Glu His Tyr Gln Thr Arg Ala Thr Ser Leu Lys Arg Gln Ile Ala
 65 70 75 80
 Gln Leu Lys Gln Glu Leu Gln Glu Met Ser Glu Lys Met Arg Ser Leu
 85 90 95
 Gln Glu Arg Arg Asn Val Gly Ala Asn Gly Ile Gly Tyr Gln Ser Asn
 100 105 110
 Lys Glu Gln Ala Pro Ser Asp Leu Leu Glu Phe Leu His Ser Gln Ile
 115 120 125
 Asp Lys Ala Glu Val Ser Ile Gly Ala Lys Leu Pro Ser Glu Tyr Gly
 130 135 140
 Val Ile Pro Phe Glu Ser Phe Thr Leu Met Lys Val Phe Gln Leu Glu
 145 150 155 160
 Met Gly Leu Thr Arg His Pro Glu Glu Lys Pro Val Arg Lys Asp Lys
 165 170 175
 Arg Asp Glu Leu Val Glu Val Ile Glu Ala Gly Leu Glu Val Ile Asn
 180 185 190
 Asn Pro Asp Glu Asp Asp Glu Gln Glu Asp Glu Glu Gly Pro Leu Gly
 195 200 205
 Glu Lys Leu Ile Phe Asn Glu Asn Asp Phe Val Glu Gly Tyr Tyr Arg
 210 215 220
 Thr Glu Arg Asp Lys Gly Thr Gln Tyr Glu Leu Phe Phe Lys Lys Ala
 225 230 235 240
 Asp Leu Thr Glu Tyr Arg His Val Thr Leu Phe Arg Pro Phe Gly Pro
 245 250 255
 Leu Met Lys Val Lys Ser Glu Met Ile Asp Ile Thr Arg Ser Ile Ile
 260 265 270
 Asn Ile Ile Val Pro Leu Ala Glu Arg Thr Glu Ala Phe Val Gln Phe
 275 280 285
 Met Gln Asn Phe Arg Asp Val Cys Ile His Gln Asp Lys Lys Ile His
 290 295 300

Leu Thr Val Val Tyr Phe Gly Lys Glu Gly Leu Ser Lys Val Lys Ser
 305 310 315 320
 Ile Leu Glu Ser Val Thr Ser Glu Ser Asn Phe His Asn Tyr Thr Leu
 325 330 335
 Val Ser Leu Asn Glu Glu Phe Asn Arg Gly Arg Gly Leu Asn Val Gly
 340 345 350
 Ala Arg Ala Trp Asp Lys Gly Glu Val Leu Met Phe Phe Cys Asp Val
 355 360 365
 Asp Ile Tyr Phe Ser Ala Glu Phe Leu Asn Ser Cys Arg Leu Asn Ala
 370 375 380
 Glu Pro Gly Lys Lys Val Phe Tyr Pro Val Val Phe Ser Leu Tyr Asn
 385 390 395 400
 Pro Ala Ile Val Tyr Ala Asn Gln Glu Val Pro Pro Pro Val Glu Gln
 405 410 415
 Gln Leu Val His Lys Lys Asp Ser Gly Phe Trp Arg Asp Phe Gly Phe
 420 425 430
 Gly Met Thr Cys Gln Tyr Arg Ser Asp Phe Leu Thr Ile Gly Gly Phe
 435 440 445
 Asp Met Glu Val Lys Gly Trp Gly Gly Glu Asp Val His Leu Tyr Arg
 450 455 460
 Lys Tyr Leu His Gly Asp Leu Ile Val Ile Arg Thr Pro Val Pro Gly
 465 470 475 480
 Leu Phe His Leu Trp His Glu Lys Arg Cys Ala Asp Glu Leu Thr Pro
 485 490 495
 Glu Gln Tyr Arg Met Cys Ile Gln Ser Lys Ala Met Asn Glu Ala Ser
 500 505 510
 His Ser His Leu Gly Met Leu Val Phe Arg Glu Glu Ile Glu Thr His
 515 520 525
 Leu His Lys Gln Ala Tyr Arg Thr Asn Ser Glu Ala Val Gly
 530 535 540

<210> 3163

<211> 222

<212> PRT

<213> Homo sapiens

<400> 3163

Met Tyr Gln Asp Phe Ile Phe Phe Phe Phe Phe Leu Arg Trp Ser Phe
 1 5 10 15
 Ile Leu Leu Ala Gln Ala Gly Val Gln Trp Cys Ser Leu Ser Ser Leu
 20 25 30
 Gln Pro Leu Pro Ser Arg Phe Lys Arg Phe Ser Cys Leu Gly Phe Pro
 35 40 45
 Ser Ser Gln Asp Tyr Arg Arg Leu Ala Pro Cys Pro Ala Thr Phe Phe
 50 55 60
 Val Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu
 65 70 75 80
 Lys Leu Leu Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Arg Ala
 85 90 95
 Gly Ile Thr Gly Val Ser His His Gly Gln Pro Ser Phe Ile Phe Met
 100 105 110
 Glu Lys Asn Ile Ser Leu Tyr Glu Tyr Thr Thr Phe Cys Leu Ser Ile
 115 120 125
 Tyr Pro Leu Ile Gly Cys Phe Tyr Phe Phe Leu Ala Ile Met Asn Asn
 130 135 140
 Ile Ala Val Asn Ile Cys Val Gln Gly Phe Ser Gly His Lys Phe Leu
 145 150 155 160
 Phe Phe Leu Gly Ile Tyr Leu Gly Val Glu Leu Leu Gly His Ile Val
 165 170 175
 Ile Leu Phe Asn Phe Leu Lys Asn Phe Pro Thr Val Leu His Gly Gly
 180 185 190
 Cys Ala Ile Val Tyr Ser Tyr Gln Gln Cys Met Lys Leu Gln Ile Ser
 195 200 205
 Pro His Pro Glu Asn Pro Phe Ile Ile Phe Cys Phe Ser Phe
 210 215 220

<210> 3164

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3164

Met Tyr Asp Ala Glu Arg Gly Trp Ser Leu Ser Phe Ala Gly Cys Gly
 1 5 10 15
 Phe Leu Gly Phe Tyr His Val Gly Ala Thr Arg Cys Leu Ser Glu His
 20 25 30
 Ala Pro His Leu Leu Arg Asp Ala Arg Met Leu Phe Gly Ala Ser Ala
 35 40 45
 Gly Ala Leu His Cys Val Gly Val Leu Ser Glu Gln Thr Leu Gln Val
 50 55 60
 Leu Ser Asp Leu Val Arg Lys Ala Arg Ser Arg Asn Ile Gly Ile Phe
 65 70 75 80
 His Pro Ser Phe Asn Leu Ser Lys Phe Leu Arg Gln Gly Leu Cys Lys
 85 90 95
 Cys Leu Pro Ala Asn Val His Gln Leu Ile Ser Gly Lys Ile Cys Ile
 100 105 110
 Ser Leu Thr Arg Val Ser Asp Gly Glu Asn Val Leu Val Ser Asp Phe
 115 120 125
 Arg Ser Lys Asp Glu Val Val Asp Ala Leu Val Cys Ser Cys Phe Met
 130 135 140
 Pro Phe Tyr Ser Gly Leu Ile Pro Pro Ser Phe Arg Gly Val Arg Tyr
 145 150 155 160
 Val Asp Gly Gly Val Ser Asp Asn Val Pro Phe Ile Asp Ala Lys Thr
 165 170 175
 Thr Ile Thr Val Ser Pro Phe Tyr Gly Glu Tyr Asp Ile Cys Pro Lys
 180 185 190
 Val Lys Ser Thr Asn Phe Leu His Val Asp Ile Thr Lys Leu Ser Leu
 195 200 205
 Arg Leu Cys Thr Gly Asn Leu Tyr Leu Leu Ser Arg Ala Phe Val Pro
 210 215 220
 Pro Asp Leu Lys Val Leu Gly Glu Ile Cys Leu Arg Gly Tyr Leu Asp
 225 230 235 240
 Ala Phe Arg Phe Leu Glu Glu Lys Gly Ile Cys Asn Arg Pro Gln Pro
 245 250 255
 Gly Leu Lys Ser Ser Ser Glu Gly Met Asp Pro Glu Val Ala Met Pro

260	265	270
Ser Trp Ala Asn Met Ser Leu Asp Ser Ser Pro Glu Ser Ala Ala Leu		
275	280	285
Ala Val Arg Leu Glu Gly Asp Glu Leu Leu Asp His Leu Arg Leu Ser		
290	295	300
Ile Leu Pro Trp Asp Glu Ser Ile Leu Asp Thr Leu Ser Pro Arg Leu		
305	310	315
Ala Thr Ala Leu Ser Glu Glu Met Lys Asp Lys Gly Gly Tyr Met Ser		
325	330	335
Lys Ile Cys Asn Leu Leu Pro Ile Arg Ile Met Ser Tyr Val Met Leu		
340	345	350
Pro Cys Thr Leu Pro Val Glu Ser Ala Ile Ala Ile Val Gln Arg Leu		
355	360	365
Val Thr Trp Leu Pro Asp Met Pro Asp Asp Val Leu Trp Leu Gln Trp		
370	375	380
Val Thr Ser Gln Val Phe Thr Arg Val Leu Met Cys Leu Leu Pro Ala		
385	390	395
Ser Arg Ser Gln Met Pro Val Ser Ser Gln Gln Ala Ser Pro Cys Thr		
405	410	415
Pro Glu Gln Asp Trp Pro Cys Trp Thr Pro Cys Ser Pro Glu Gly Cys		
420	425	430
Pro Ala Glu Thr Lys Ala Glu Ala Thr Pro Arg Ser Ile Leu Arg Ser		
435	440	445
Ser Leu Asn Phe Phe Leu Gly Asn Lys Val Pro Ala Gly Ala Glu Gly		
450	455	460
Leu Ser Thr Phe Pro Ser Phe Ser Leu Glu Lys Ser Leu		
465	470	475

<210> 3165

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3165

Met Arg Arg Cys Arg Arg Cys Ala Arg Trp Pro His Arg Cys Pro Gly

1	5	10	15
Pro Gln Ser Gly	Pro Arg Ser His	Phe Ser Pro Trp	Pro Arg Thr Leu
20	25	30	
Gly Pro Ala Pro	Ala Leu Cys Val	Arg Thr Pro Leu	Arg Pro Gly Pro
35	40	45	
Ser Ser Ala Leu	Gly Pro Leu Ser	Ala Cys Pro Ser	Val Pro Asp Tyr
50	55	60	
Thr Ala Ser Pro	Pro Ala Gly Asp	Ser Ala Arg Ser	Ile Val Ala Ala
65	70	75	80
Ser Arg Ala Ala	Gly Ser Gly Ser	Thr Pro Gly Ala	Gly Ser Lys Asp
85	90	95	
Cys Ser Pro Pro	Pro His Ser His	Ser Ala Ala Ala	Ala Gly Glu Ser
100	105	110	
Gly Asp Ile Gly	Pro Gly Ser Gly	Ala Val Glu Ala	Pro Gly Arg Gly
115	120	125	
Ala Arg Arg Pro	Thr Arg Gln Arg	Glu Asp Gly Gly	Gly Ala Val Gly
130	135	140	
Cys Phe Gly Val	Ser Arg His Arg	Gly Arg Glu Ala	Gln Met Ser His
145	150	155	160
Ser Ser His Cys	Gly Ser Arg Ser	Cys Ser Ala Ala	Ala Ala Arg Pro
165	170	175	
Ser Leu Leu Gln	Leu Ala		
180			

<210> 3166

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3166

Met Asn Val Val	Ala Gln Arg Arg	Gly Glu Gly Trp	Gly Glu Met Arg
1	5	10	15
Asn Arg Lys Lys	Ile Pro Arg Glu	Ile Lys Arg Pro	Arg Gly Ala Glu
20	25	30	
Pro Gly Ser Arg	Trp Ser Arg Gln	Met Glu Gln Gln	Arg Gln Arg Thr

35 40 45
 Glu Pro Gln Ser Gly His Thr Ala Arg Pro Gly Ser Gln Ala Leu Trp
 50 55 60
 Val Trp Trp Glu Gln Met Leu Val Trp Glu Gln Gln Leu Met Ala Pro
 65 70 75 80
 Ser Thr Cys Ile Leu Val Asp Ser Arg Pro Ser Thr Ala Ser Ser Ala
 85 90 95
 Ala Gly Leu Ser Leu Glu Glu Gln Pro Trp Ser Arg Glu Ala Asp Glu
 100 105 110
 Trp Gln Pro Cys Pro Val Gly Ala Pro Val Leu Leu Leu His Pro Pro
 115 120 125
 Pro Gly Ser Ala His Leu Leu Arg Leu Pro Pro Arg Ala Ser
 130 135 140

<210> 3167

<211> 158

<212> PRT

<213> Homo sapiens

<400> 3167

Met Ile Ala Gln Arg Arg Asp Ala Met Ala His Arg Ile Leu Ser Ala
 1 5 10 15
 Arg Leu His Lys Ile Lys Gly Leu Lys Asn Glu Leu Ala Asp Met His
 20 25 30
 His Lys Leu Glu Ala Ile Leu Thr Glu Asn Gln Phe Leu Lys Gln Leu
 35 40 45
 Gln Leu Arg His Leu Lys Ala Ile Gly Lys Tyr Glu Asn Ser Gln Asn
 50 55 60
 Asn Leu Pro Gln Ile Met Ala Lys His Gln Asn Glu Val Lys Asn Leu
 65 70 75 80
 Arg Gln Leu Leu Arg Lys Ser Gln Glu Lys Glu Arg Thr Leu Ser Arg
 85 90 95
 Lys Leu Arg Glu Thr Asp Ser Gln Leu Leu Lys Thr Lys Asp Ile Leu
 100 105 110
 Gln Ala Leu Gln Lys Leu Ser Glu Asp Lys Asn Leu Ala Glu Arg Glu

115	120	125
Glu Leu Thr His Lys Leu Ser Ile Ile Thr Thr Lys Met Asp Ala Asn		
130	135	140
Asp Lys Lys Ile Gln Val Cys Ile Ser Gly Ala Gln Thr Val		
145	150	155

<210> 3168

<211> 196

<212> PRT

<213> Homo sapiens

<400> 3168

Met Gly Asn Lys Ala Lys Ile Ala Lys Cys Pro Leu Arg Thr Lys Thr		
1	5	10
Gly His Ile Leu Lys Ser Thr Gln Asp Thr Cys Ile Gly Ser Glu Lys		
20	25	30
Leu Leu Gln Lys Lys Pro Val Gly Ser Glu Thr Ser Gln Ala Lys Gly		
35	40	45
Glu Lys Asn Gly Met Thr Phe Ser Ser Thr Lys Asp Leu Cys Lys Gln		
50	55	60
Cys Ile Asp Lys Asp Cys Leu His Ile Gln Lys Glu Ile Ser Pro Ala		
65	70	75
Thr Pro Asn Met Gln Lys Thr Arg Asn Thr Val Asn Thr Ser Leu Val		
85	90	95
Gly Lys Gln Lys Pro His Lys Lys His Ile Thr Ala Glu Asn Met Lys		
100	105	110
Ser Ser Leu Val Cys Leu Thr Gln Asp Gln Leu Gln Gln Ile Leu Met		
115	120	125
Thr Val Asn Gln Gly Asn Arg Ser Leu Ser Leu Thr Glu Asn Gly Lys		
130	135	140
Glu Ala Lys Ser Gln Tyr Ser Leu Tyr Leu Asn Ser Ile Ser Asn Gln		
145	150	155
Pro Lys Asp Glu Asn Ile Met Gly Leu Phe Lys Lys Thr Glu Met Val		
165	170	175
Ser Ser Val Pro Ala Glu Asn Lys Ser Val Leu Asn Glu His Gln Glu		

180 185 190
 Thr Ser Lys Gln
 195

<210> 3169

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3169

Met Ser Thr Arg Val Asn Cys Pro Leu Asn Cys Pro Asn Met Ala Ser
 1 5 10 15
 Tyr Ser Leu Met Glu Asn Pro Arg Gly Arg Val Tyr Pro His Phe Ser
 20 25 30
 Leu Asn Lys Lys Val Phe Ile Pro Lys Thr Gly Gly Gly Arg Gly Gly
 35 40 45
 Ser Met Thr Lys Ser Pro Ser Val Ala Gln Ala Gly Val Gln Gly Val
 50 55 60
 Ile Ser Ala His Cys Asn Leu Arg Leu Pro Gly Ser Gly Asp Ser Pro
 65 70 75 80
 Ala Ser Ala Ser Arg Glu Ala Gly Ile Ala Gly Ala His His Gln Pro
 85 90 95
 Gly Gln His Gly Lys Thr Pro Ser Leu Leu Lys Met Gln Thr Leu Ala
 100 105 110
 Gly His Gly Gly Thr Cys Leu
 115

<210> 3170

<211> 675

<212> PRT

<213> Homo sapiens

<400> 3170

Met Leu Leu Ala Pro Gln Gly Arg Ser Phe Ser Lys Lys Arg Met Gly

1	5	10	15
Leu Asn Arg Trp Lys Arg Phe Thr Arg Lys Pro Ser Pro Lys Pro Thr			
20	25	30	
Phe Gly Pro Asp Ser Val Glu His Trp Ile Lys Arg Val Glu Lys Ala			
35	40	45	
Ser Glu Phe Ala Val Ser Asn Ala Phe Phe Thr Arg Asn Ser Asp Leu			
50	55	60	
Pro Arg Ser Pro Trp Gly Gln Ile Thr Asp Leu Lys Thr Ser Glu Gln			
65	70	75	80
Ile Glu Asp His Asp Glu Ile Tyr Ala Glu Ala Gln Glu Leu Val Asn			
85	90	95	
Asp Trp Leu Asp Thr Lys Leu Lys Gln Glu Leu Ala Ser Glu Glu Glu			
100	105	110	
Gly Asp Ala Lys Asn Thr Val Ser Ser Val Thr Ile Met Pro Glu Ala			
115	120	125	
Asn Gly His Leu Lys Tyr Asp Lys Phe Asp Asp Leu Cys Gly Tyr Leu			
130	135	140	
Glu Glu Glu Glu Glu Ser Thr Thr Val Gln Lys Phe Ile Asp His Leu			
145	150	155	160
Leu His Lys Asn Val Val Asp Ser Ala Met Met Glu Asp Leu Gly Arg			
165	170	175	
Lys Glu Asn Gln Asp Lys Lys Gln Gln Lys Asp Pro Arg Leu Thr Met			
180	185	190	
Glu Met Arg His Lys Gln Val Lys Glu Asn Arg Leu Arg Arg Glu Lys			
195	200	205	
Glu Leu Glu Tyr Gln Arg Ile Glu Lys Thr Leu Lys Lys Ser Ala Phe			
210	215	220	
Leu Glu Ala Gln Cys Leu Val Gln Glu Glu Lys Lys Arg Lys Ala Leu			
225	230	235	240
Glu Ala Lys Lys Glu Glu Glu Glu Ile Gln Arg Glu Met Val Lys Leu			
245	250	255	
Arg Arg Glu Ile Ile Glu Arg Arg Arg Thr Val Lys Ala Ala Trp Lys			
260	265	270	
Ile Glu Lys Lys Arg Gln Glu Glu Asn Ser Gln Asn Ser Ser Glu Lys			
275	280	285	
Val Met Phe Gln Ser Thr His Ile Leu Pro Asp Glu Glu Lys Met Val			

290	295	300	
Lys Glu Arg Lys Arg	Lys Leu Lys Glu Val	Leu Ile Gln Thr Phe Lys	
305	310	315	320
Glu Asn Gln Gln Cys Gln Lys Arg Tyr Phe Ala Ala Trp His Lys Leu			
	325	330	335
Ile Leu Asp His Arg Ile Lys Leu Gly Lys Ala Gly Thr Leu Ser Asp			
	340	345	350
Trp Lys Ile Gln Leu Lys Val Leu Arg Ala Trp Arg Asp Tyr Thr Arg			
	355	360	365
Phe Gln Lys Leu Glu Arg Glu Thr Gln Ala Leu Glu Asn Asp Leu Arg			
	370	375	380
Glu Glu Asn Arg Lys Gln Gln Leu Ala Thr Glu Tyr Asn Arg Lys Gln			
385	390	395	400
Val Leu Arg His Cys Phe Thr Glu Trp Gln His Trp His Gly Ala Glu			
	405	410	415
Leu Leu Lys Arg Glu Leu Ala Leu Thr Lys Glu Glu Thr Arg Lys Lys			
	420	425	430
Met Asp Ala Leu Leu Gln Ala Ala Ser Leu Gly Lys Leu Ser Ala Asn			
	435	440	445
Gly Leu Ser Gly Ile Ser Leu Pro Glu Glu Ala Thr Ala Met Val Gly			
	450	455	460
Pro Pro Val Lys Asn Gly Gln Glu Thr Ala Val Pro Pro Leu Trp Glu			
465	470	475	480
Lys Pro Pro Leu Gly Ser Ser Gly Cys Met Leu Ser Pro Pro Leu Gly			
	485	490	495
Arg Thr Thr Thr Gly Asn Leu Gln Gly Ser Leu Gln Asn Val Ser Leu			
	500	505	510
Ser Ala Pro Gly Asn Lys Gln His Lys Thr Leu Gly Ala Glu Pro Ser			
	515	520	525
Gln Gln Pro Gly Ser Asn Glu Thr Leu Arg Thr Thr Ser Gln Lys Ala			
	530	535	540
Glu Pro Leu Cys Leu Gly His Phe His Asn Arg His Val Phe Gln Gln			
545	550	555	560
Gln Leu Ile Glu Lys Gln Lys Lys Lys Leu Gln Glu Gln Gln Lys Thr			
	565	570	575
Ile Leu Glu Leu Lys Lys Asn Leu Gln Leu Ala Glu Ala Gln Trp Ala			

580 585 590
 Ala Glu His Ala Leu Ala Val Thr Glu Ala Gln Ser His Leu Leu Ser
 595 600 605
 Lys Pro Arg Glu Glu Glu Pro Arg Thr Cys Gln Met Leu Val Asn Ser
 610 615 620
 Pro Val Ala Ser Pro Gly Thr Glu Gly Arg Ser Asp Ser Arg Asn Ser
 625 630 635 640
 Leu Ser Gly Leu Arg Arg Lys Pro Lys Gln Leu Met Thr Pro His Pro
 645 650 655
 Ile Leu Lys Ala Met Glu Glu Arg Ala Ile Gln Arg Ala Glu Cys Arg
 660 665 670
 Arg Ile Leu
 675

<210> 3171

<211> 188

<212> PRT

<213> Homo sapiens

<400> 3171

Met Gly Phe His His Val Gly Gln Ala Gly Leu Gly Leu Leu Thr Ser
 1 5 10 15
 Cys Ser Thr Arg Phe Gly Leu Pro Arg Phe Trp Asp Tyr Arg Cys Glu
 20 25 30
 Pro Pro Cys Thr Ala Gly Leu Thr Phe Gly Lys Ala Leu Ser Leu Trp
 35 40 45
 Thr Phe Ala Ser Leu Lys Arg Arg Trp Glu His Ile Met Thr Ala Cys
 50 55 60
 His His Cys Phe Ser Asp Tyr His Asn Ser Ile Met Leu Ser Arg Thr
 65 70 75 80
 Ser Gly Pro Val Phe Thr Thr Gly Lys Thr Tyr Phe Arg Leu Asp Ser
 85 90 95
 Leu Lys Arg Ser Asn Ala Leu Val Gly Cys Gly Glu Gly Lys Ile Arg
 100 105 110
 Thr Leu Thr Leu Lys Asp Thr Ser Glu Ile Val Arg Ser Leu Gly Ser

115 120 125
 Trp Ser Thr Arg Leu His Ala Leu Arg Pro Ser Val Val Phe Ser Glu
 130 135 140
 Gln Ala Leu Ser Thr Ser Ser Arg Lys Gln Gln Gln Lys Asn Thr Ser
 145 150 155 160
 Phe Leu Pro Cys Leu Leu Asp Met Lys Arg Gln Leu His Ser Thr Leu
 165 170 175
 His Tyr Val Leu His Val Ala Leu Ser Val Tyr Ala
 180 185

<210> 3172

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3172

Met Glu Lys Phe Ser Lys Ser Leu Pro Gly Pro Glu Ala Gln Leu Ala
 1 5 10 15
 Ser Pro Leu Thr Gly Thr Gly Cys Arg Thr Ser Pro His Leu Ala Arg
 20 25 30
 Ala Leu Pro Gln Pro Arg Gly Ser Ser Ser Gln Thr Ile Lys Arg Lys
 35 40 45
 Arg Gly Glu Ala Arg Lys Arg Arg Arg Ala Ala Ser Val Ala Lys Asp
 50 55 60
 Pro Thr Lys Arg Glu Gly Arg Ser Thr His Gly Thr Gln Pro Pro Ile
 65 70 75 80
 Lys Pro Ser Arg Cys Arg Asp Arg Ala His Pro Asp Pro Thr Pro Ala
 85 90 95
 Gly Gln Arg Cys Ala Gln Pro Gln Leu Leu Pro Ala Pro Leu Ser Ser
 100 105 110
 His Phe Pro Glu Ser Arg Gly Ser Arg Leu Arg Pro Gln Pro Ala Pro
 115 120 125
 Glu Lys Gly Pro His Ser Ala Ala Gly Gly
 130 135

<210> 3173

<211> 221

<212> PRT

<213> Homo sapiens

<400> 3173

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Met Ala Ala Ala Gly Pro Leu Cys Thr Glu Arg Val Ser Val Leu Ser
  1             5             10            15
Gln Pro Asn Ser Gly Val Glu Asp Pro Thr Pro Ala Gly Gly Arg Gly
      20             25            30
Gln Gly Arg Arg Arg Gly Arg Glu Glu Leu Glu Ser Ile Gly Ala Gly
      35             40            45
Pro Gly Ala Ser Val Arg Ile Leu Pro Ala Leu Arg Pro Gly Leu Gly
      50             55            60
Gly Val Trp Gly Ala Gly Ala Ala Ser Leu Val Phe Gln Ala Gly Pro
      65             70            75            80
Gly Ser Ser Trp Leu Gly Trp Pro Asp Leu Asp Leu Ala Leu Tyr Arg
      85             90            95
Gly Trp Ala Cys Arg Ser Glu Gly Thr Ala Asn Val Ala Phe Pro Gly
      100            105            110
Thr Ala Ser Pro Gly Phe Ser Arg Ala Arg Gln Thr Arg Asp Leu Arg
      115            120            125
Lys Pro Ala Leu Lys Thr Pro Ser His Thr Ala Ser Gln Leu Ala Ala
      130            135            140
Glu Ala Gly Asn Pro Ser Gly Gly Cys Pro Ser Met Arg Cys Gln Arg
      145            150            155            160
Arg Val Gly Ala Leu Val Pro Thr Trp Lys Gly Gly Trp Arg Asp Gly
      165            170            175
Trp Ser Gly Ser Gly Gly Arg Ala Lys Glu Arg Ile Leu Ala Phe Ser
      180            185            190
Phe Pro Ala Gly Gly Gly Ile Arg Gly Glu Arg Val Gln Ala Ala Ser
      195            200            205
Asn Thr Arg Ile Trp Glu Glu Pro Gly Ser Thr Pro Asn
      210            215            220

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<210> 3174

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3174

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Met Tyr Ala Cys Val Cys Asp Trp Leu Gly Phe Ser Tyr Arg Glu Glu
  1             5             10             15
Val Gln Trp Asp Val Asp Thr Ile Tyr Leu Thr Gln Asp Thr Arg Glu
             20             25             30
Leu Asn Leu Gln Asp Phe Ser His Leu Asp His Arg Asp Leu Ile Pro
             35             40             45
Ile Ile Ala Ala Leu Glu Tyr Asn Gln Trp Phe Thr Lys Leu Ser Ser
             50             55             60
Lys Asp Leu Lys Leu Ser Thr Asp Val Cys Glu Gln Ile Leu Arg Val
             65             70             75             80
Val Ser Arg Ser Asn Arg Leu Glu Glu Leu Val Leu Glu Asp Ala Gly
             85             90             95
Leu Arg Thr Asp Phe Ala Gln Lys Leu Ala Ser Ala Leu Ala His Asn
             100            105            110
Pro Asn Ser Gly Leu His Thr Ile Asn Leu Ala Gly Asn Pro Leu Glu
             115            120            125
Asp Arg Glu Thr Thr Thr Lys Ile Lys Arg Gln Asn Val Pro Thr Val
             130            135            140
Leu Gln Thr Tyr Leu Val Val Cys Pro Ser Asp Tyr Gln Pro Cys Pro
             145            150            155            160
Leu Pro Leu Gly Lys Asp Asn Tyr Tyr Ser Asp Phe Ser His Asp Gly
             165            170            175

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<210> 3175

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3175

Met Arg Val Ser Ser Gly Val Ala Thr Gly Leu Leu Glu Asn Gln Arg
 1 5 10 15
 Arg Arg Glu Gln Pro Arg Ser Gly Gly Arg Arg Pro Gly Pro Gly Pro
 20 25 30
 Leu Leu Pro Gln Gln Ala Pro His Pro Arg Ile Ile Cys Ser Arg Ala
 35 40 45
 Ala Pro Thr Ser Leu Ser Leu Pro His Pro Arg Ser Arg Phe Arg Arg
 50 55 60
 Ser Gly His Ala Gly Ala Ser Ala Gly Cys Gly Arg Pro Ser Arg Gly
 65 70 75 80
 Leu Gly Glu Gly Ser Gly Leu Lys Phe Thr Leu Ser Leu Arg Gly Leu
 85 90 95
 Glu Ala Pro Arg Pro Pro Arg Thr Val Ser Ser Ala Ala Gly Cys Ala
 100 105 110
 Leu Gly Gly Ser Ser Pro Ser Val Leu Pro Thr Gly Val Gly Arg Gly
 115 120 125

<210> 3176

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3176

Met Ile Thr Leu Ala Ser Pro Leu Cys Pro Ile Ile Ser Gln Val Pro
 1 5 10 15
 Ile Leu Lys Arg Lys Arg Lys Glu Gly Gly Asn Glu Gly Arg Glu Gly
 20 25 30
 Gly Arg Lys Glu Gly Arg Met Glu Gly Arg Lys Glu Gly Lys Gly Glu
 35 40 45
 Arg Glu Gly Arg Arg Glu Gly Arg Lys Leu Ser Asn Pro Ser Ser Val
 50 55 60
 Gln Ser Arg Arg Arg Phe His Gly Thr Pro Arg Ile Asp Arg Phe Leu
 65 70 75 80
 Leu Leu Ser Trp Trp Met Glu Met Pro Thr Ser Ser Cys Glu Ser Leu

	85	90	95
Pro	Glu Gly Leu Ile Val Ala Pro	Ser Ser Val Gly Leu Thr Ser Leu	
	100	105	110
Phe	Ser Leu Glu Gly Leu Ala Ile Glu Arg Gln Val Met Cys Cys Phe		
	115	120	125
Arg	Lys Gln Asn Trp Asp Met Ser		
	130	135	

<210> 3177

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3177

Met	Ala	Leu	Asp	Phe	Leu	Ala	Gly	Cys	Ala	Gly	Gly	Val	Ala	Gly	Val
1		5					10					15			
Leu	Val	Gly	His	Pro	Phe	Asp	Thr	Val	Lys	Val	Arg	Leu	Gln	Val	Gln
		20					25					30			
Ser	Val	Glu	Lys	Pro	Gln	Tyr	Arg	Gly	Thr	Leu	His	Cys	Phe	Lys	Ser
		35					40					45			
Ile	Ile	Lys	Gln	Glu	Ser	Val	Leu	Gly	Leu	Tyr	Lys	Gly	Leu	Gly	Ser
		50					55					60			
Pro	Leu	Met	Gly	Leu	Thr	Phe	Ile	Asn	Ala	Leu	Val	Phe	Gly	Val	Gln
		65					70					75			80
Gly	Asn	Thr	Leu	Arg	Ala	Leu	Gly	His	Asp	Ser	Pro	Leu	Asn	Gln	Phe
							85					90			95
Leu	Ala	Gly	Ala	Ala	Ala	Gly	Ala	Ile	Gln	Cys	Val	Ile	Cys	Cys	Pro
		100					105					110			
Met	Glu	Leu	Ala	Lys	Thr	Arg	Leu	Gln	Leu	Gln	Asp	Ala	Gly	Pro	Ala
		115					120					125			
Arg	Thr	Tyr	Lys	Gly	Ser	Leu	Asp	Cys	Leu	Ala	Gln	Ile	Tyr	Gly	His
		130					135					140			
Glu	Gly	Leu	Arg	Gly	Val	Asn	Arg	Gly	Met	Val	Ser	Thr	Leu	Leu	Arg
		145					150					155			160
Glu	Thr	Pro	Ser	Phe	Gly	Val	Tyr	Phe	Leu	Thr	Tyr	Asp	Ala	Leu	Thr

165	170	175
Arg Ala Leu Gly Cys Glu Pro Gly Asp Arg Leu Leu Val Pro Lys Leu		
180	185	190
Leu Leu Ala Gly Gly Thr Ser Gly Ile Val Ser Trp Leu Ser Thr Tyr		
195	200	205
Pro Val Asp Val Val Lys Ser Arg Leu Gln Ala Asp Gly Leu Arg Gly		
210	215	220
Ala Pro Arg Tyr Arg Gly Ile Leu Asp Cys Val His Gln Ser Tyr Arg		
225	230	235
Ala Glu Gly Trp Arg Val Phe Thr Arg Gly Leu Ala Ser Thr Leu Leu		
245	250	255
Arg Ala Phe Pro Val Asn Ala Ala Thr Phe Ala Thr Val Thr Val Val		
260	265	270
Leu Thr Tyr Ala Arg Gly Glu Glu Ala Gly Pro Glu Gly Glu Ala Val		
275	280	285
Pro Ala Ala Pro Ala Gly Pro Ala Leu Ala Gln Pro Ser Ser Leu		
290	295	300

<210> 3178

<211> 694

<212> PRT

<213> Homo sapiens

<400> 3178

Met Ala Leu Gly Lys Leu Arg Pro Pro Thr Pro Pro Met Val Ile Leu
1 5 10 15
Glu Pro Tyr Val Leu Ser Glu Leu Pro Pro Ile Ser His Glu Tyr Tyr
20 25 30
Asp Pro Ala Glu Phe Met Glu Gly Gly Pro Gln Glu Ala Asp Arg Leu
35 40 45
Asp Glu Leu Glu Tyr Glu Glu Val Glu Leu Tyr Lys Ser Ser His Arg
50 55 60
Asp Lys Leu Gly Leu Met Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp
65 70 75 80
Leu Gly Ile Tyr Val Gly Glu Val Asn Pro Asn Ser Ile Ala Ala Lys

	85	90	95
Asp Gly Arg Ile Arg Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Val			
100	105	110	
Asp Val Gln Asn Arg Glu Glu Ala Val Ala Ile Leu Ser Gln Glu Glu			
115	120	125	
Asn Thr Asn Ile Ser Leu Leu Val Ala Arg Pro Glu Ser Gln Leu Ala			
130	135	140	
Lys Arg Trp Lys Asp Ser Asp Arg Asp Asp Phe Leu Asp Asp Phe Gly			
145	150	155	160
Ser Glu Asn Glu Gly Glu Leu Arg Ala Arg Lys Leu Lys Ser Pro Pro			
165	170	175	
Ala Gln Gln Pro Gly Asn Glu Glu Glu Lys Gly Ala Pro Asp Ala Gly			
180	185	190	
Pro Gly Leu Ser Asn Ser Gln Glu Leu Asp Ser Gly Val Gly Arg Thr			
195	200	205	
Asp Glu Ser Thr Arg Asn Glu Glu Ser Ser Glu His Asp Leu Leu Gly			
210	215	220	
Asp Glu Pro Pro Ser Ser Thr Asn Thr Pro Gly Ser Leu Arg Lys Phe			
225	230	235	240
Gly Leu Gln Gly Asp Ala Leu Gln Ser Arg Asp Phe His Phe Ser Met			
245	250	255	
Asp Ser Leu Leu Ala Glu Gly Ala Gly Leu Gly Gly Gly Asp Val Pro			
260	265	270	
Gly Leu Thr Asp Glu Glu Tyr Glu Arg Tyr Arg Glu Leu Leu Glu Ile			
275	280	285	
Lys Cys His Leu Glu Asn Gly Asn Gln Leu Gly Leu Leu Phe Pro Arg			
290	295	300	
Ala Ser Gly Gly Asn Ser Ala Leu Asp Val Asn Arg Asn Glu Ser Leu			
305	310	315	320
Gly His Glu Met Ala Met Leu Glu Glu Glu Leu Arg His Leu Glu Phe			
325	330	335	
Lys Cys Arg Asn Ile Leu Arg Ala Gln Lys Met Gln Gln Leu Arg Glu			
340	345	350	
Arg Cys Met Lys Ala Trp Leu Leu Glu Glu Glu Ser Leu Tyr Asp Leu			
355	360	365	
Ala Ala Ser Glu Pro Lys Lys His Glu Leu Ser Asp Ile Ser Glu Leu			

370	375	380	
Pro Glu Lys Ser Asp	Lys Asp Ser Thr Ser Thr Tyr Asn Thr Gly Glu		
385	390	395	400
Ser Cys Arg Ser Thr	Pro Leu Leu Val Glu Pro Leu Pro Glu Ser Pro		
	405	410	415
Leu Arg Arg Ala Thr	Ala Gly Asn Ser Asn Leu Asn Arg Thr Pro Pro		
	420	425	430
Gly Pro Ala Val Ala Thr	Pro Ala Lys Ala Ala Pro Pro Pro Gly Ser		
	435	440	445
Pro Ala Lys Phe Arg Ser	Leu Ser Arg Asp Pro Glu Ala Gly Arg Arg		
	450	455	460
Gln His Ala Glu Glu Arg	Gly Arg Arg Asn Pro Lys Thr Gly Leu Thr		
	465	470	475
Leu Glu Arg Val Gly Pro	Glu Ser Ser Pro Tyr Leu Ser Arg Arg His		
	485	490	495
Arg Gly Gln Gly Gln Glu	Gly Glu His Tyr His Ser Cys Val Gln Leu		
	500	505	510
Ala Pro Thr Arg Gly Leu	Glu Glu Leu Gly His Gly Pro Leu Ser Leu		
	515	520	525
Ala Gly Gly Pro Arg Val	Gly Gly Val Ala Ala Ala Ala Thr Glu Ala		
	530	535	540
Pro Arg Met Glu Trp Lys	Val Lys Val Arg Ser Asp Gly Thr Arg Tyr		
	545	550	555
Val Ala Lys Arg Pro Val	Arg Asp Arg Leu Leu Lys Ala Arg Ala Leu		
	565	570	575
Lys Ile Arg Glu Glu Arg	Ser Gly Met Thr Thr Asp Asp Asp Ala Val		
	580	585	590
Ser Glu Met Lys Met Gly	Arg Tyr Trp Ser Lys Glu Glu Arg Lys Gln		
	595	600	605
His Leu Ile Arg Ala Arg	Glu Gln Arg Lys Arg Arg Glu Phe Met Met		
	610	615	620
Gln Ser Arg Leu Glu Cys	Leu Arg Glu Gln Gln Asn Gly Asp Ser Lys		
	625	630	635
Pro Glu Leu Asn Ile Ile	Ala Leu Ser His Arg Lys Thr Met Lys Lys		
	645	650	655
Arg Asn Lys Lys Ile Leu	Asp Asn Trp Ile Thr Ile Gln Glu Met Leu		

660 665 670
 Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro Leu
 675 680 685
 Leu Ser Val Thr Thr Val
 690

<210> 3179

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3179

Met Arg Lys Asn Phe Gly Val Arg Ala Glu Leu Cys Glu Gly Leu Leu
 1 5 10 15
 Gly Trp Gly Ile Ser Ser Tyr Gly Pro His Ala Ile Tyr Leu Leu Leu
 20 25 30
 Glu Arg Gly Asp Phe Glu Trp Val Gly Met Asp Arg Cys Ser Ser Arg
 35 40 45
 Lys Pro Cys Trp Leu Met Gly Thr Thr Ser Val Tyr Tyr Cys Asp Ser
 50 55 60
 Leu Cys Lys Leu Pro Met Trp Pro Arg Thr Pro Leu Leu Pro Gly His
 65 70 75 80
 Phe Leu Pro Pro His Cys Thr Gly Leu Asn His Ser Ala Cys Cys Cys
 85 90 95
 Cys Thr Met Leu Gly Cys Gly Arg Ile Gly Lys Gly Phe Cys
 100 105 110

<210> 3180

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3180

Met Glu Phe Gln Thr Leu Leu Leu Gly Thr Glu Gln Asn Phe Glu Asp

1	5	10	15												
Ala	Leu	Ile	Leu	Ser	Ser	His	Glu	Gly	Ser	Val	Gln	Glu	Gln	Val	Thr
	20							25					30		
Lys	Trp	Arg	Pro	Glu	Thr	Lys	Arg	Thr	Asn	Glu	Leu	Ser	Tyr	Arg	Asp
	35						40					45			
Leu	Leu	Ala	Leu	Leu	Pro	Leu	Phe	Thr	Thr	Arg	Arg	Gln	Thr	Ser	Leu
	50					55					60				
Ile	Phe	Lys	Lys	Leu	Leu	Phe	Asp	Leu	Ser	Glu	Ser	Gln	Pro	Arg	Asn
65				70					75					80	
His	Gly	Cys	Met	Ile	Phe	Asp	Leu	Asp	Phe	Glu	Asp	Ser	Phe	Tyr	Lys
			85					90					95		
Glu	Lys	Ser	Glu	Gln	Trp	Pro	Arg	Arg							
	100						105								

<210> 3181

<211> 219

<212> PRT

<213> Homo sapiens

<400> 3181

Met	Ser	Ser	Pro	His	Lys	Asn	Ser	Val	Pro	Ser	Ser	Leu	Asn	Glu	Tyr
1				5					10				15		
Glu	Val	Leu	Pro	Asn	Gly	Cys	Glu	Ala	His	Trp	Glu	Val	Val	Glu	Arg
		20						25				30			
Ile	Leu	Phe	Ile	Tyr	Ala	Lys	Leu	Asn	Pro	Gly	Ile	Ala	Tyr	Val	Gln
		35					40				45				
Gly	Met	Asn	Glu	Ile	Val	Gly	Pro	Leu	Tyr	Tyr	Thr	Phe	Ala	Thr	Asp
	50					55					60				
Pro	Asn	Ser	Glu	Trp	Lys	Glu	His	Ala	Glu	Ala	Asp	Thr	Phe	Phe	Cys
65				70					75				80		
Phe	Thr	Asn	Leu	Met	Ala	Glu	Ile	Arg	Asp	Asn	Phe	Ile	Lys	Ser	Leu
			85					90				95			
Asp	Asp	Ser	Gln	Cys	Gly	Ile	Thr	Tyr	Lys	Met	Glu	Lys	Val	Tyr	Ser
		100					105				110				
Thr	Leu	Lys	Asp	Lys	Asp	Val	Glu	Leu	Tyr	Leu	Lys	Leu	Gln	Glu	Gln

115	120	125
Asn Ile Lys Pro Gln Phe Phe Ala Phe Arg Trp Leu Thr Leu Leu Leu		
130	135	140
Ser Gln Glu Phe Leu Leu Pro Asp Val Ile Arg Ile Trp Asp Ser Leu		
145	150	155
Phe Ala Asp Asp Asn Arg Phe Asp Phe Leu Leu Leu Val Cys Cys Ala		
165	170	175
Met Leu Met Leu Ile Arg Glu Gln Leu Leu Glu Gly Asp Phe Thr Val		
180	185	190
Asn Met Arg Leu Leu Gln Asp Tyr Pro Ile Thr Asp Val Cys Gln Ile		
195	200	205
Leu Gln Lys Ala Lys Glu Leu Gln Asp Ser Lys		
210	215	

<210> 3182

<211> 138

<212> PRT

<213> Homo sapiens

<400> 3182

Met Glu Arg Val Ile Ile Cys Asp Pro Gly Ser Leu Leu Tyr Asn Tyr		
1	5	10
Gln Ala Asp Leu Glu Gln Ile Thr Leu Leu Ser Leu Val Ser Phe Val		
20	25	30
Val Val Leu Phe Leu Phe Leu Arg Trp Ser Phe Ala Leu Val Ala Gln		
35	40	45
Ala Gly Val Gln Leu His Asp Leu Ser Ser Pro Gln Pro Pro Pro Pro		
50	55	60
Arg Phe Lys Gln Phe Ser Cys Pro Ser Leu Pro Ser Ser Trp Asp Tyr		
65	70	75
Arg His Ala Pro Pro His Pro Ala Asn Ser Val Phe Leu Val Glu Thr		
85	90	95
Gly Phe Leu His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Asp		
100	105	110
Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser		

115	120	125
His His Ala Arg Pro Ser Pro Val Ser Leu		
130	135	

<210> 3183

<211> 838

<212> PRT

<213> Homo sapiens

<400> 3183

Met Thr Gly Ala Glu Ile Glu Pro Ser Ala Gln Ala Lys Pro Glu Lys			
1	5	10	15
Lys Ala Gly Glu Glu Val Ile Ala Gly Pro Glu Arg Glu Asn Asp Val			
20	25	30	
Pro Leu Val Val Arg Pro Lys Val Arg Thr Gln Ala Thr Thr Gly Ala			
35	40	45	
Arg Pro Lys Thr Glu Thr Lys Ser Val Pro Ala Ala Arg Pro Lys Thr			
50	55	60	
Glu Ala Gln Ala Met Ser Gly Ala Arg Pro Lys Thr Glu Val Gln Val			
65	70	75	80
Met Gly Gly Ala Arg Pro Lys Thr Glu Ala Gln Arg Ile Thr Gly Ala			
85	90	95	
Arg Pro Lys Thr Asp Ala Arg Ala Val Gly Gly Ala Arg Ser Lys Thr			
100	105	110	
Asp Ala Lys Ala Ile Pro Gly Ala Arg Pro Lys Asp Glu Ala Gln Ala			
115	120	125	
Trp Ala Gln Ser Glu Phe Gly Thr Glu Ala Val Ser Gln Ala Glu Gly			
130	135	140	
Val Ser Gln Thr Asn Ala Val Ala Trp Pro Leu Ala Thr Ala Glu Ser			
145	150	155	160
Gly Ser Val Thr Lys Ser Lys Gly Leu Ser Met Asp Arg Glu Leu Val			
165	170	175	
Asn Val Asp Ala Glu Thr Phe Pro Gly Thr Gln Gly Gln Lys Gly Ile			
180	185	190	
Gln Pro Trp Phe Gly Pro Gly Glu Glu Thr Asn Met Gly Ser Trp Cys			

195	200	205
Tyr Ser Arg Pro Arg Ala Arg Glu Glu Ala Ser Asn Glu Ser Gly Phe		
210	215	220
Trp Ser Ala Asp Glu Thr Ser Thr Ala Ser Ser Phe Trp Thr Gly Glu		
225	230	235
Glu Thr Ser Val Arg Ser Trp Pro Arg Glu Glu Ser Asn Thr Arg Ser		
245	250	255
Arg His Arg Ala Lys His Gln Thr Asn Pro Arg Ser Arg Pro Arg Ser		
260	265	270
Lys Gln Glu Ala Tyr Val Asp Ser Trp Ser Gly Ser Glu Asp Glu Ala		
275	280	285
Ser Asn Pro Phe Ser Phe Trp Val Gly Glu Asn Thr Asn Asn Leu Phe		
290	295	300
Arg Pro Arg Val Arg Glu Glu Ala Asn Ile Arg Ser Lys Leu Arg Thr		
305	310	315
Asn Arg Glu Asp Cys Phe Glu Ser Glu Ser Glu Asp Glu Phe Tyr Lys		
325	330	335
Gln Ser Trp Val Leu Pro Gly Glu Glu Ala Asn Ser Arg Phe Arg His		
340	345	350
Arg Asp Lys Glu Asp Pro Asn Thr Ala Leu Lys Leu Arg Ala Gln Lys		
355	360	365
Asp Val Asp Ser Asp Arg Val Lys Gln Glu Pro Arg Phe Glu Glu Glu		
370	375	380
Val Ile Ile Gly Ser Trp Phe Trp Ala Glu Lys Glu Ala Ser Leu Glu		
385	390	395
Gly Gly Ala Ser Ala Ile Cys Glu Ser Glu Pro Gly Thr Glu Glu Gly		
405	410	415
Ala Ile Gly Gly Ser Ala Tyr Trp Ala Glu Glu Lys Ser Ser Leu Gly		
420	425	430
Ala Val Ala Arg Glu Glu Ala Lys Pro Glu Ser Glu Glu Glu Ala Ile		
435	440	445
Phe Gly Ser Trp Phe Trp Asp Arg Asp Glu Ala Cys Phe Asp Leu Asn		
450	455	460
Pro Cys Pro Val Tyr Lys Val Ser Asp Arg Phe Arg Asp Ala Ala Glu		
465	470	475
Glu Leu Asn Ala Ser Ser Arg Pro Gln Thr Trp Asp Glu Val Thr Val		

	485		490		495
Glu Phe Lys Pro Gly Leu Phe His Gly Val Gly Phe Arg Ser Thr Ser					
	500		505		510
Pro Phe Gly Ile Pro Glu Glu Ala Ser Glu Met Leu Glu Ala Lys Pro					
	515		520		525
Lys Asn Leu Glu Leu Ser Pro Glu Gly Glu Glu Gln Glu Ser Leu Leu					
	530		535		540
Gln Pro Asp Gln Pro Ser Pro Glu Phe Thr Phe Gln Tyr Asp Pro Ser					
545		550		555	560
Tyr Arg Ser Val Arg Glu Ile Arg Glu His Leu Arg Ala Arg Glu Ser					
	565		570		575
Ala Glu Ser Glu Ser Trp Ser Cys Ser Cys Ile Gln Cys Glu Leu Lys					
	580		585		590
Ile Gly Ser Glu Glu Phe Glu Glu Phe Leu Leu Leu Met Asp Lys Ile					
	595		600		605
Arg Asp Pro Phe Ile His Glu Ile Ser Lys Ile Ala Met Gly Met Arg					
610		615		620	
Ser Ala Ser Gln Phe Thr Arg Asp Phe Ile Arg Asp Ser Gly Val Val					
625		630		635	640
Ser Leu Ile Gly Thr Leu Leu Asn Tyr Pro Ser Ser Arg Val Arg Thr					
	645		650		655
Ser Phe Leu Glu Asn Met Ile His Met Ala Pro Pro Tyr Pro Asn Leu					
	660		665		670
Asn Met Ile Glu Thr Phe Ile Cys Gln Val Cys Glu Glu Thr Leu Ala					
	675		680		685
His Ser Val Asp Ser Leu Glu Gln Leu Thr Gly Ile Arg Met Leu Arg					
	690		695		700
His Leu Thr Met Thr Ile Asp Tyr His Thr Leu Ile Ala Asn Tyr Met					
705		710		715	720
Ser Gly Phe Leu Ser Leu Leu Thr Thr Ala Asn Ala Arg Thr Lys Phe					
	725		730		735
His Val Leu Lys Met Leu Leu Asn Leu Ser Glu Asn Pro Ala Val Ala					
	740		745		750
Lys Lys Leu Phe Ser Ala Lys Ala Leu Ser Ile Phe Val Gly Leu Phe					
	755		760		765

Asn Ile Glu Glu Thr Asn Asp Asn Ile Gln Ile Val Ile Lys Met Phe
 770 775 780
 Gln Asn Ile Ser Asn Ile Ile Lys Ser Gly Lys Met Ser Leu Ile Asp
 785 790 795 800
 Asp Asp Phe Ser Leu Glu Pro Leu Ile Ser Ala Phe Arg Glu Phe Glu
 805 810 815
 Glu Leu Ala Lys Gln Leu Gln Ala Gln Ile Asp Asn Gln Asn Asp Pro
 820 825 830
 Glu Val Gly Gln Gln Ser
 835

<210> 3184

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3184

Met Lys Gln Thr Arg Ser Ile Gln Lys Leu Pro Ala Asn Lys Lys Cys
 1 5 10 15
 Gln Ile Ser Val His His Lys Ser Lys Tyr Pro Trp Val Ser Ile Asn
 20 25 30
 Phe Asn Lys Gln Asn Ile Phe Gly Ser Val Leu Phe Asp Met Asp Leu
 35 40 45
 Gln Arg Ser Leu Pro Asn His Phe Phe Leu Ser Leu Cys Glu Met Ser
 50 55 60
 Val Lys Glu Lys Ile Gly Glu Trp Trp Ser His Tyr Trp Ile Ile Ser
 65 70 75 80
 Ile Ile Leu Tyr Lys Lys Asp Lys Leu Phe Asp Ile Gln Asp Met Tyr
 85 90 95
 Ser Ala Gln Arg His Gln Phe Gly Gly Glu Leu Met Thr Leu Ser Pro
 100 105 110
 Ile Phe

<210> 3185

<211> 294

<212> PRT

<213> Homo sapiens

<400> 3185

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Met Leu Arg Gln Val Leu Arg Arg Gly Leu Gln Ser Phe Cys His Arg
 1             5             10            15
Leu Gly Leu Cys Val Ser Arg His Pro Val Phe Phe Leu Thr Val Pro
      20             25            30
Ala Val Leu Thr Ile Thr Phe Gly Leu Ser Ala Leu Asn Arg Phe Gln
      35             40            45
Pro Glu Gly Asp Leu Glu Arg Leu Val Ala Pro Ser His Ser Leu Ala
      50             55            60
Lys Ile Glu Arg Ser Leu Ala Ser Ser Leu Phe Pro Leu Asp Gln Ser
      65             70            75            80
Lys Ser Gln Leu Tyr Ser Asp Leu His Thr Pro Gly Arg Tyr Gly Arg
      85             90            95
Val Ile Leu Leu Ser Pro Thr Gly Asp Asn Ile Leu Leu Gln Ala Glu
      100            105            110
Gly Ile Leu Gln Thr His Arg Ala Val Leu Glu Met Lys Asp Gly Arg
      115            120            125
Asn Ser Phe Ile Gly His Gln Leu Gly Gly Val Val Glu Val Pro Asn
      130            135            140
Ser Lys Asp Gln Arg Val Lys Ser Ala Arg Ala Ile Gln Ile Thr Tyr
      145            150            155            160
Tyr Leu Gln Thr Tyr Gly Ser Ala Thr Gln Asp Leu Ile Gly Glu Lys
      165            170            175
Trp Glu Asn Glu Phe Cys Lys Leu Ile Arg Lys Leu Gln Glu Glu His
      180            185            190
Gln Glu Leu Gln Leu Tyr Ser Leu Ala Ser Phe Ser Leu Trp Arg Asp
      195            200            205
Phe His Lys Thr Ser Ile Leu Ala Arg Ser Lys Val Leu Val Ser Leu
      210            215            220
Val Leu Ile Leu Thr Thr Ala Thr Leu Ser Ser Ser Met Lys Asp Cys

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225 230 235 240
 Leu Arg Ser Lys Pro Phe Leu Gly Leu Leu Gly Val Leu Thr Val Cys
 245 250 255
 Ile Ser Ile Ile Thr Ala Ala Gly Ile Phe Phe Ile Thr Asp Gly Lys
 260 265 270
 Tyr Asn Ser Thr Leu Leu Gly Ile Pro Phe Phe Ala Met Gly Ile Ser
 275 280 285
 Thr Glu Phe Thr Ser Ser
 290

<210> 3186

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3186

Met Ser Val Thr Met Ser Phe Leu Ile Cys Ala Pro Gly Glu Gly Gly
 1 5 10 15
 Cys Gly Glu Asp Pro Val Cys Arg His Cys Val Pro Trp Gln Ser Arg
 20 25 30
 Gly Ala Pro Cys Gly Trp Pro Ala Lys Val Tyr Val Pro Leu Arg Ala
 35 40 45
 Glu Gly Lys Arg Gln Pro Arg Ser Cys Ala Ser Arg His Leu Met Gly
 50 55 60
 His Val Ser Gln Ile Cys Lys Ser Lys Ile Leu Ala Ser Tyr Leu Leu
 65 70 75 80
 Cys Arg Ile Asn Asn Phe Asn Asn Asn Gly Asn Trp Val Met Asp Gly
 85 90 95
 Thr Ala Ala Ile Arg Leu
 100

<210> 3187

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3187

Met Pro Ser Trp Arg Leu Ser Leu Phe Ile Ile Gly Ser His Ser Leu
 1 5 10 15
 Val Gly Tyr Leu Cys Asp Leu Ala Ser Asp Val Pro Gly Gln Arg Pro
 20 25 30
 Pro Trp Leu Gln Pro Arg Arg Arg Thr Arg Ser Arg Val Gly Trp Ser
 35 40 45
 Gly Ser Trp Glu Glu Arg Val Ser Ala Cys Pro Gly Thr Pro Ser Ser
 50 55 60
 Arg Glu Asp Thr Glu Ala Arg Thr Pro Leu Gly Phe Pro Gly Lys Trp
 65 70 75 80
 Arg Arg Ser Val Leu Gly Arg Ser Ser Glu Leu Ile Pro Pro Arg Ile
 85 90 95
 Gly Ala Gly Leu
 100

<210> 3188

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3188

Met Gly Asn Phe Trp Lys Gly Arg Gln Pro Phe Leu Lys Phe Gln Asn
 1 5 10 15
 Glu Lys Asp Val Ile Leu Ile Leu Thr Gly Ser Leu Phe Ile Phe Leu
 20 25 30
 Lys Lys Glu Ser Phe Leu Leu Ser His Phe Gln Leu Phe Phe Ser Leu
 35 40 45
 Leu Phe Phe Phe Ser Phe Leu Ser Pro Leu Leu Leu Phe Leu Phe Pro
 50 55 60
 Ser Pro Pro Pro Phe Phe Phe Tyr Cys Ser Leu Gln Ser Arg Ala
 65 70 75 80
 Thr Pro Ile Gly Ser Val Thr Lys Val Thr Pro Ser Ser His Phe Cys

85 90 95
Pro Asp Phe Phe Ser Leu Phe Gln Ala Val Arg Leu Ser Cys Cys Leu
100 105 110
Cys Ser Trp Ala Ile Ile Pro Ser Phe Ala Tyr Cys Arg Leu
115 120 125

<210> 3189

<211> 162

<212> PRT

<213> Homo sapiens

<400> 3189

[illegible]

<210> 3190

<211> 680

<212> PRT

<213> Homo sapiens

<400> 3190

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Met Gly Cys Gly Thr Lys Glu Pro Lys Ile Thr Gln Leu Cys Leu Ala
  1             5             10             15
Ala Ile Gln Arg Leu Met Ser His Glu Val Val Ser Glu Thr Ala Ala
      20             25             30
Gly Asn Ile Ile Asn Met Leu Trp Gln Leu Met Glu Asn Ser Leu Glu
      35             40             45
Glu Leu Lys Leu Leu Gln Thr Val Leu Val Leu Leu Thr Thr Asn Thr
      50             55             60
Val Val His Asp Glu Ala Leu Ser Lys Ala Ile Val Leu Cys Phe Arg
      65             70             75             80
Leu His Phe Thr Lys Asp Asn Ile Thr Asn Asn Thr Ala Ala Ala Thr
      85             90             95
Val Arg Gln Val Val Thr Val Val Phe Glu Arg Met Val Ala Glu Asp
      100            105            110
Glu Arg His Arg Asp Ile Ile Glu Gln Pro Val Leu Val Gln Gly Asn
      115            120            125
Ser Asn Arg Arg Ser Val Ser Thr Leu Lys Pro Cys Ala Lys Asp Ala
      130            135            140
Tyr Met Leu Phe Gln Asp Leu Cys Gln Leu Val Asn Ala Asp Ala Pro
      145            150            155            160
Tyr Trp Leu Val Gly Met Thr Glu Met Thr Arg Thr Phe Gly Leu Glu
      165            170            175
Leu Leu Glu Ser Val Leu Asn Asp Phe Pro Gln Val Phe Leu Gln His
      180            185            190
Gln Glu Phe Ser Phe Leu Leu Lys Glu Arg Val Cys Pro Leu Val Ile
      195            200            205
Lys Leu Phe Ser Pro Asn Ile Lys Phe Arg Gln Gly Ser Ser Thr Ser
      210            215            220
Ser Ser Pro Ala Pro Val Glu Lys Pro Tyr Phe Pro Ile Cys Met Arg

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225	230	235	240
Leu Leu Arg Val Val Ser Val Leu Ile Lys Gln Phe Tyr Ser Leu Leu			
	245	250	255
Val Thr Glu Cys Glu Ile Phe Leu Ser Leu Leu Val Lys Phe Leu Asp			
	260	265	270
Ala Asp Lys Pro Gln Trp Leu Arg Ala Val Ala Val Glu Ser Ile His			
	275	280	285
Arg Phe Arg Val Gln Pro Gln Leu Leu Arg Ser Phe Cys Gln Ser Tyr			
	290	295	300
Asp Met Lys Gln His Ser Thr Lys Val Phe Arg Asp Ile Val Asn Ala			
305	310	315	320
Leu Gly Ser Phe Ile Gln Ser Leu Phe Leu Val Pro Pro Thr Gly Asn			
	325	330	335
Pro Ala Thr Ser Asn Gln Ala Gly Asn Asn Asn Leu Gly Gly Ser Val			
	340	345	350
Ser Ala Pro Ala Asn Ser Gly Met Val Gly Ile Gly Gly Gly Val Thr			
	355	360	365
Leu Leu Pro Ala Phe Glu Tyr Arg Gly Thr Trp Ile Pro Ile Leu Thr			
	370	375	380
Ile Thr Val Gln Gly Ser Ala Lys Ala Thr Tyr Leu Glu Met Leu Asp			
385	390	395	400
Lys Val Glu Pro Pro Thr Ile Pro Glu Gly Tyr Ala Met Ser Val Ala			
	405	410	415
Phe His Cys Leu Leu Asp Leu Val Arg Gly Ile Thr Ser Met Ile Glu			
	420	425	430
Gly Glu Leu Gly Glu Leu Glu Thr Glu Cys Gln Thr Thr Thr Glu Glu			
	435	440	445
Gly Ser Ser Pro Thr Gln Ser Thr Glu Gln Gln Asp Leu Gln Ser Thr			
	450	455	460
Ser Asp Gln Met Asp Lys Glu Ile Val Ser Arg Ala Val Trp Glu Glu			
465	470	475	480
Met Val Asn Ala Cys Trp Cys Gly Leu Leu Ala Ala Leu Ser Leu Leu			
	485	490	495
Leu Asp Ala Ser Thr Asp Glu Ala Ala Thr Glu Asn Ile Leu Lys Ala			
	500	505	510
Glu Leu Thr Met Ala Ala Leu Cys Gly Arg Leu Gly Leu Val Thr Ser			

515	520	525
Arg Asp Ala Phe Ile Thr	Ala Ile Cys Lys Gly Ser	Leu Pro Pro His
530	535	540
Tyr Ala Leu Thr Val Leu	Asn Thr Thr Thr Ala Ala	Thr Leu Ser Asn
545	550	555
Lys Ser Tyr Ser Val Gln	Gly Gln Ser Val Met Met	Ile Ser Pro Ser
565	570	575
Ser Glu Ser His Gln Gln	Val Val Ala Val Gly Gln	Pro Leu Ala Val
580	585	590
Gln Pro Gln Gly Thr Val	Met Leu Thr Ser Lys Asn	Ile Gln Cys Met
595	600	605
Arg Thr Leu Leu Asn Leu	Ala His Cys His Gly Ala	Val Leu Gly Thr
610	615	620
Ser Trp Gln Leu Val Leu	Ala Thr Leu Gln His Leu	Val Trp Ile Leu
625	630	635
Gly Leu Lys Pro Ser Ser	Gly Gly Ala Leu Lys Pro	Gly Arg Ala Val
645	650	655
Glu Gly Pro Ser Thr Val	Pro Phe Lys Asp Phe Met	Gln Pro Pro Ala
660	665	670
Ser Arg Val Gln Asn Gly	Glu Ser	
675	680	

<210> 3191

<211> 198

<212> PRT

<213> Homo sapiens

<400> 3191

Met Cys Gly Ile Tyr Ala	His Val Gln Glu Lys Pro	Arg Thr Gln Ser
1	5	10
Ser Leu Asp Leu Met Gln	Ile Pro Pro Ala Lys Ala	Ser Ala Phe Ser
20	25	30
Asp Pro Ala Cys Pro Gly	Asp Pro Thr Pro His Leu	Leu Leu Glu Leu
35	40	45
Leu Asp Cys Thr Glu Val	Gly Leu Val Val Gly Ala	His Gly Gly Leu

50 55 60
 Val Ala Leu Ala Pro Leu Glu Glu Cys Gly Leu Gln Leu Cys Ile Leu
 65 70 75 80
 Leu Leu Gln Leu Ala His Leu Leu Gln Val Val Gly Gln Ala Val Ile
 85 90 95
 Gln Glu Leu His Gly Leu Leu Leu Met Ala Ile Gln Gly Val Phe Ala
 100 105 110
 Val Gly Pro Thr Asp Ser Asp Val Ala Gly Asn Val Thr Gly Pro Trp
 115 120 125
 Gln Gly Thr Ser Ser Val Thr Gly Trp Gly Gln Thr Glu Ala Gly Ala
 130 135 140
 Ala Gln Gly Ser Arg Pro His Thr Asp Ser Val Gly Val Cys His Val
 145 150 155 160
 Gly Gln Glu Ala His Gly Gly Ser Ile Gly Leu Cys His Arg Leu Ala
 165 170 175
 Pro Asn Ile Asp Arg Arg Asp Lys Asp Ile Ser Cys Ser Arg Ser His
 180 185 190
 Gly Ala Thr Gln Arg Ala
 195

<210> 3192

<211> 225

<212> PRT

<213> Homo sapiens

<400> 3192

Met Ala Thr Phe Ile Gly Ala Ala Val Ser Asn Ser Ser Arg Gly Thr
 1 5 10 15
 Ala Pro Cys Gly Thr Gly Leu Pro Pro Arg Gln His Ala Gln Ser Ser
 20 25 30
 Ser Ser Gly Val Ile Leu Ser Ser Tyr Leu Tyr Pro Leu Leu Ile Thr
 35 40 45
 Cys Lys Leu Arg Gly Arg Leu Phe Arg Ile Phe Trp Thr Lys Asp Asp
 50 55 60
 Thr Ser Arg Pro Leu Pro Trp Lys Gly Val Val Thr Phe Arg Cys Cys

65 70 75 80
 His His Cys Gly Lys Leu Thr Trp Cys Cys Trp Val Cys Leu Met Glu
 85 90 95
 Arg Cys Phe His Cys Phe Pro Val His Leu Val Phe Asn Leu Val Gln
 100 105 110
 Ser Phe Ser Pro Thr Ser Gly Val Glu Ser Cys Leu Leu Pro Gln Cys
 115 120 125
 Asp Lys Cys Trp Pro Met Val Tyr Arg Ser Cys Asp Ala Ser Arg Gly
 130 135 140
 Leu Val Asn Ala Cys Ile Leu Gly Phe Val Leu Leu Glu Cys Ser Phe
 145 150 155 160
 Val Gly Ala Leu Asn Asn Tyr Val Arg Ser Leu Ala Thr Leu Leu Glu
 165 170 175
 Arg Thr His Gly Gly Lys Arg Leu Lys Leu Cys Glu Glu Ser Gln Ala
 180 185 190
 Ser His Pro Ser Phe Ser Ala Glu Pro Arg His Gln Pro Thr Cys Gln
 195 200 205
 Leu Asn Ala Thr Val Arg Val Ile Thr Ser Lys Ile Thr Arg Lys Thr
 210 215 220
 Thr
 225

<210> 3193

<211> 590

<212> PRT

<213> Homo sapiens

<400> 3193

Met Ala Thr Pro Arg Gly Arg Thr Lys Lys Lys Ala Ser Phe Asp His
 1 5 10 15
 Ser Pro Asp Ser Leu Pro Leu Arg Ser Ser Gly Arg Gln Ala Lys Lys
 20 25 30
 Lys Ala Thr Glu Thr Thr Asp Glu Asp Glu Gly Gly Ser Glu Lys
 35 40 45
 Lys Tyr Arg Lys Cys Glu Lys Ala Gly Cys Thr Ala Thr Cys Pro Val

50	55	60
Cys Phe Ala Ser Ala Ser Glu Arg Cys Ala Lys Asn Gly Tyr Thr Ser		
65	70	75
Arg Trp Tyr His Leu Ser Cys Gly Glu His Phe Cys Asn Glu Cys Phe		
85	90	95
Asp His Tyr Tyr Arg Ser His Lys Asp Gly Tyr Asp Lys Tyr Thr Thr		
100	105	110
Trp Lys Lys Ile Trp Thr Ser Asn Gly Lys Thr Glu Pro Ser Pro Lys		
115	120	125
Ala Phe Met Ala Asp Gln Gln Leu Pro Tyr Trp Val Gln Cys Thr Lys		
130	135	140
Pro Glu Cys Arg Lys Trp Arg Gln Leu Thr Lys Glu Ile Gln Leu Thr		
145	150	155
Pro Gln Ile Ala Lys Thr Tyr Arg Cys Gly Met Lys Pro Asn Thr Ala		
165	170	175
Ile Lys Pro Glu Thr Ser Asp His Cys Ser Leu Pro Glu Asp Leu Glu		
180	185	190
Ala Leu Thr Pro Gln Lys Cys Ile Pro His Ile Ile Val Arg Gly Leu		
195	200	205
Val Arg Ile Arg Cys Val Gln Glu Val Glu Arg Ile Leu Tyr Phe Met		
210	215	220
Thr Arg Lys Gly Leu Ile Asn Thr Gly Val Leu Ser Val Gly Ala Asp		
225	230	235
Gln Tyr Leu Leu Pro Lys Asp Tyr His Asn Lys Ser Val Ile Ile Ile		
245	250	255
Gly Ala Gly Pro Ala Gly Leu Ala Ala Ala Arg Gln Leu His Asn Phe		
260	265	270
Gly Ile Lys Val Thr Val Leu Glu Ala Lys Asp Arg Ile Gly Gly Arg		
275	280	285
Val Trp Asp Asp Lys Ser Phe Lys Gly Val Thr Val Gly Arg Gly Ala		
290	295	300
Gln Ile Val Asn Gly Cys Ile Asn Asn Pro Val Ala Leu Met Cys Glu		
305	310	315
Gln Val Ser Ala Arg Ser Trp Asp His Asn Glu Phe Phe Ala Gln Phe		
325	330	335
Ala Gly Asp His Thr Leu Leu Thr Pro Gly Tyr Ser Val Ile Ile Glu		

340	345	350
Lys Leu Ala Glu Gly Leu Asp Ile Gln Leu Lys Ser Pro Val Gln Cys		
355	360	365
Ile Asp Tyr Ser Gly Asp Glu Val Gln Val Thr Thr Thr Asp Gly Thr		
370	375	380
Gly Tyr Ser Ala Gln Lys Val Leu Val Thr Val Pro Leu Ala Leu Leu		
385	390	395
Gln Lys Gly Ala Ile Gln Phe Asn Pro Pro Leu Ser Glu Lys Lys Met		
405	410	415
Lys Ala Thr Asn Ser Leu Gly Ala Gly Ile Ile Glu Lys Ile Ala Leu		
420	425	430
Gln Phe Pro Tyr Arg Phe Trp Asp Ser Lys Val Gln Gly Ala Asp Phe		
435	440	445
Phe Gly His Val Pro Pro Ser Ala Ser Lys Arg Gly Leu Phe Ala Val		
450	455	460
Phe Tyr Asp Met Asp Pro Gln Lys Lys His Ser Val Leu Met Ser Val		
465	470	475
Ile Ala Gly Glu Ala Val Ala Ser Val Arg Thr Leu Asp Asp Lys Gln		
485	490	495
Val Leu Gln Gln Cys Met Ala Thr Leu Arg Glu Leu Phe Lys Glu Gln		
500	505	510
Glu Val Pro Asp Pro Thr Lys Tyr Phe Val Thr Arg Trp Ser Thr Asp		
515	520	525
Pro Trp Ile Gln Met Ala Tyr Ser Phe Val Lys Thr Gly Gly Ser Gly		
530	535	540
Glu Ala Tyr Asp Ile Ile Ala Glu Asp Ile Gln Gly Thr Val Phe Phe		
545	550	555
Ala Gly Glu Ala Thr Asn Arg His Phe Pro Gln Thr Val Thr Gly Ala		
565	570	575
Tyr Leu Ser Gly Val Arg Glu Ala Ser Lys Ile Ala Ala Phe		
580	585	590

<210> 3194

<211> 175

<212> PRT

<213> Homo sapiens

<400> 3194

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Met Thr Arg Thr Pro Val Gly Ser Ala Arg Thr Arg Pro Lys Pro Arg
 1             5             10             15
Lys Leu Gly Pro Gln Arg Gly Lys Ala Leu Gln Ala Ser Ser Arg Leu
          20             25             30
Ser Glu Ser Pro Ala Leu Val Lys Lys Arg Met Pro Asp Ala Cys Thr
          35             40             45
Leu Gly Arg Ala Gly Ile Gly Leu Pro Lys Met Cys Leu His Met Ala
          50             55             60
Val Arg His Ser Lys Ala Gln Lys Thr Gly Pro Gly Ile Leu Gln Gln
          65             70             75             80
Arg Gln Lys Pro Pro Ala Pro Arg Ala Ser Gly Gly Pro Ala Leu Leu
          85             90             95
Gly Lys Arg Arg Gly Cys Ser Glu Ala Gly Ser Ala Ser Leu Glu Pro
          100            105            110
Leu Ser Ser Ser Arg Ala Ala Ala Gly Cys Leu Asn Gln Val Pro Leu
          115            120            125
Ser Pro Phe Leu Ala Gly Pro Arg Asn Thr Arg Arg Leu Pro Ala Pro
          130            135            140
Glu Arg Glu Arg Ile Glu Leu Ala Ala Thr Leu Cys Leu Glu Gly Trp
          145            150            155            160
Pro Leu Arg Cys Leu Ala Ser Lys Gly Lys Leu His Cys Val Tyr
          165            170            175

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<210> 3195

<211> 235

<212> PRT

<213> Homo sapiens

<400> 3195

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Met Arg Pro Asp Asp Ile Asn Pro Arg Thr Gly Leu Val Val Ala Leu
 1             5             10             15
Val Ser Val Phe Leu Val Phe Gly Phe Met Phe Thr Val Ser Gly Met

```

20 25 30
 Lys Gly Glu Thr Leu Gly Asn Ile Pro Leu Leu Ala Ile Gly Pro Ala
 35 40 45
 Ile Cys Leu Pro Gly Ile Ala Ala Ile Ala Leu Ala Arg Lys Thr Glu
 50 55 60
 Gly Cys Thr Lys Arg Pro Glu Asn Glu Leu Leu Trp Val Arg Lys Leu
 65 70 75 80
 Pro Cys Phe Arg Lys Pro Lys Asp Lys Glu Val Val Glu Leu Leu Arg
 85 90 95
 Thr Pro Ser Asp Leu Glu Ser Gly Lys Gly Ser Ser Asp Glu Leu Ala
 100 105 110
 Lys Lys Ala Gly Leu Arg Gly Lys Pro Pro Pro Gln Ser Gln Gly Glu
 115 120 125
 Val Ser Val Ala Ser Ser Ile Asn Ser Pro Thr Pro Thr Glu Glu Gly
 130 135 140
 Glu Cys Gln Ser Leu Val Gln Asn Gly His Gln Glu Glu Thr Ser Arg
 145 150 155 160
 Tyr Leu Asp Gly Tyr Cys Pro Ser Gly Ser Ser Leu Thr Tyr Ser Ala
 165 170 175
 Leu Asp Val Lys Cys Ser Ala Arg Asp Arg Ser Glu Cys Pro Glu Pro
 180 185 190
 Glu Asp Ser Ile Phe Phe Val Pro Gln Asp Ser Ile Ile Val Cys Ser
 195 200 205
 Tyr Lys Gln Asn Ser Pro Tyr Asp Arg Tyr Cys Cys Tyr Ile Asn Gln
 210 215 220
 Ile Gln Gly Arg Trp Asp His Glu Thr Ile Val
 225 230 235

<210> 3196

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3196

Met Tyr Trp Gln Asn Trp Thr His Asn Gly Arg Phe Trp Gly Ala Gly

1 5 10 15
 Val His Leu Tyr Leu Ser Arg Lys Gln Cys Ala Leu Lys Asn Thr Ser
 20 25 30
 Leu Ser Lys Phe Gln Thr Ser His Ile Cys Lys Gly Ser Ala Leu Gln
 35 40 45
 Pro Gln Gln Ala Ser Pro Gly Ala Ser Ser Phe Leu Thr Cys Ser Glu
 50 55 60
 Leu Gly Val Met Tyr Leu Lys Leu Val Leu Gly Gln Met Val Gln Ala
 65 70 75 80
 Val Arg Arg Asp Ser Gly Leu Gln Pro Phe Gly Ser Leu Phe Leu Leu
 85 90 95
 Ile Thr Gln Lys Arg Ala Val Leu Thr Pro Phe Leu Thr Lys Thr Trp
 100 105 110
 His Ser Leu Arg Ala Leu Val Tyr Arg Val Trp Ser Leu Glu Glu Ser
 115 120 125
 Arg Tyr Leu Gln Arg Glu Lys Gly Leu Val Asp Ser Phe Gly Val Leu
 130 135 140
 Trp Glu Glu
 145

<210> 3197

<211> 200

<212> PRT

<213> Homo sapiens

<400> 3197

Met Ala Gly Trp Gly Ser Tyr Ser Val Thr Ala Thr Pro Phe Thr Ala
 1 5 10 15
 Val Ile Met Ser Met Leu Ser Thr Ser Leu Glu Ser Leu Val Leu Ser
 20 25 30
 Ser Val Leu Ile Arg Phe Met Ala Leu Asn Pro Arg Ser Gln Gln Glu
 35 40 45
 Val Glu Met Gly Thr Gln Thr Thr Thr Ala Met Ser Leu Leu Ser Arg
 50 55 60
 Gly Lys Arg Gln Cys Trp Ala Arg Ala Phe Leu Gln Ser Met Glu Asn

65	70	75	80
Gly Arg Cys Trp	Ala Met Val Phe Arg	Pro Ser His Ser	Ser Ser Arg
	85	90	95
Ala Ser Ser Leu	Tyr Pro Val Gly Arg	Glu His Ser Lys	Tyr Leu Ala
	100	105	110
Arg Leu Arg Met	Ser Ser Phe Pro Lys	Leu Ala Ser Ser	Ile Pro Leu
	115	120	125
Gly Gln Ala Met	Val Ser Asn Thr Ser	Met Phe Phe Ser	Cys Gly Gly
	130	135	140
Arg Ser Ala Ser	Asn Leu Cys Trp Arg	Tyr Ser Ile Pro	Val Arg Thr
145	150	155	160
Val Leu Ser Leu	Ser Ala Trp Asn Arg	Cys Ser Ala Thr	Ser Ser Leu
	165	170	175
Ser Lys Gln Met	Pro Trp Ser Arg Pro	Ser Leu Lys Leu	Ala Leu Asn
	180	185	190
Ser Ser Ser Leu	Gly Pro Ala Trp		
	195	200	

<210> 3198

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3198

Met Thr Glu Arg	Glu Trp Thr Phe Gln	Trp Phe Leu Asn	Leu Glu Val
1	5	10	15
Ile Gln Glu Gly	Asp Gly Pro Val Ile	Ser Arg Asp Gly	Arg Val Leu
	20	25	30
Thr Ile Pro Thr	Val Thr Arg Asn Asp	Ser Ser Thr Tyr	His Cys Glu
	35	40	45
Ala Arg Asn His	Leu Gly Ser Arg Leu	Ser Glu Ala Leu	Val Val Gly
	50	55	60
Val Ala Tyr Gly	Pro Asp Thr Pro Ile	Val Thr Ala Leu	Asp Pro Asp
65	70	75	80
Phe Val Ile Gly	Ser Asn Leu Thr Leu	Val Cys Leu Ala	Tyr Ser His

	85		90		95										
Leu	Leu	Ala	Gln	Tyr	Thr	Trp	Ser	Phe	Ser	Gly	Val	Thr	Thr	Trp	Glu
	100						105						110		
Gly	Gln	Thr	Leu	Phe	Met	Pro	Ser	Leu	Ser	Arg	Ala	His	Ser	Gly	Val
	115						120					125			
Tyr	Thr	Cys	Lys	Ala	Ser	Asn	Ser	Leu	Ser	Gly	Leu	His	Ser	Ser	Met
	130					135				140					
Asp	Thr	Ile	Ile	Thr	Val	Ser	Glu	Thr	Leu	Pro	Gln	Pro	Asn	Val	Thr
145					150				155					160	
Ala	Ser	Asn	Leu	Ala	Pro	Val	Glu	His	Val	Asp	Ser	Ile	Ser	Leu	His
			165					170				175			
Cys	Leu	Pro	Pro	Arg	Ser	Thr	Val	Ala	Ile	Arg	Arg	Asp	Val	Asn	Gly
	180						185					190			
Gln	Lys	Leu	Phe	Ile	Gly	Gly	His	Arg	Glu	Leu	Ser	Leu	Asp	Cys	Arg
	195						200					205			
Thr	Leu	Thr	Leu	Ser	Asn	Ile	Thr	Arg	Asn	Asp	Thr	Gly	Val	Tyr	Gln
	210					215					220				
Cys	Glu	Ser	Trp	Asn	Ser	Ala	Thr	Ser	Ser	Ile	Ser	Asn	Pro	Thr	Leu
225				230					235					240	
Ile	Lys	Val	Thr	Tyr	Gly	Pro	Asp	Pro	Pro	Met	Val	Asn	Pro	Pro	Asp
			245					250				255			
Pro	Glu	Val	Thr	Ala	Gly	Ala	Ala	Leu	Thr	Leu	Ser	Cys	Phe	Ala	Asp
	260						265					270			
Ser	Asn	Pro	Pro	Ala	Gln	Tyr	His	Trp	Glu	Met	Asp	Arg	Arg	Pro	Gly
	275						280					285			
Pro	Ala	Thr	Gln	His	Leu	Val	Ile	Ser	Glu	Val	Thr	Leu	Asp	Gln	
	290					295					300				

<210> 3199

<211> 585

<212> PRT

<213> Homo sapiens

<400> 3199

Met Glu Met Arg Leu Pro Ile Arg Ser Pro Ile Lys Arg Asp Phe Leu

1	5	10	15
Ser Gly Ile Gln Ile Glu Phe Lys Gln Ser Ser His Gln Arg Ser Leu			
20	25	30	
Arg Ala Arg Leu Tyr Trp Leu Gln Val Asp Asn Gln Leu Pro Gly Ala			
35	40	45	
Met Phe Pro Val Val Phe His Pro Val Ala Pro Pro Lys Ser Ile Ala			
50	55	60	
Leu Asp Ser Glu Pro Lys Pro Phe Ile Asp Val Ser Val Ile Thr Arg			
65	70	75	80
Phe Asn Glu Tyr Ser Lys Val Leu Gln Phe Lys Tyr Phe Met Val Leu			
85	90	95	
Ile Gln Glu Met Ala Leu Lys Ile Asp Gln Gly Phe Leu Gly Ala Ile			
100	105	110	
Ile Ala Leu Phe Thr Pro Thr Thr Asp Pro Glu Ala Glu Arg Arg Arg			
115	120	125	
Thr Lys Leu Ile Gln Gln Asp Ile Asp Ala Leu Asn Ala Glu Leu Met			
130	135	140	
Glu Thr Ser Met Thr Asp Met Ser Ile Leu Ser Phe Phe Glu His Phe			
145	150	155	160
His Ile Ser Pro Val Lys Leu His Leu Ser Leu Ser Leu Gly Ser Gly			
165	170	175	
Gly Glu Glu Ser Asp Lys Glu Lys Gln Glu Met Phe Ala Val His Ser			
180	185	190	
Val Asn Leu Leu Leu Lys Ser Ile Gly Ala Thr Leu Thr Asp Val Asp			
195	200	205	
Asp Leu Ile Phe Lys Leu Ala Tyr Tyr Glu Ile Arg Tyr Gln Phe Tyr			
210	215	220	
Lys Arg Asp Gln Leu Ile Trp Ser Val Val Arg His Tyr Ser Glu Gln			
225	230	235	240
Phe Leu Lys Gln Met Tyr Val Leu Val Leu Gly Leu Asp Val Leu Gly			
245	250	255	
Asn Pro Phe Gly Leu Ile Arg Gly Leu Ser Glu Gly Val Glu Ala Leu			
260	265	270	
Phe Tyr Glu Pro Phe Gln Gly Ala Val Gln Gly Pro Glu Glu Phe Ala			
275	280	285	
Glu Gly Leu Val Ile Gly Val Arg Ser Leu Phe Gly His Thr Val Gly			

290	295	300	
Gly Ala Ala Gly Val Val Ser Arg Ile Thr Gly Ser Val Gly Lys Gly			
305	310	315	320
Leu Ala Ala Ile Thr Met Asp Lys Glu Tyr Gln Gln Lys Arg Arg Glu			
	325	330	335
Glu Leu Ser Arg Gln Pro Arg Asp Phe Gly Asp Ser Leu Ala Arg Gly			
	340	345	350
Gly Lys Gly Phe Leu Arg Gly Val Val Gly Gly Val Thr Gly Ile Ile			
	355	360	365
Thr Lys Pro Val Glu Gly Ala Lys Lys Glu Gly Ala Ala Gly Phe Phe			
	370	375	380
Lys Gly Ile Gly Lys Gly Leu Val Gly Ala Val Ala Arg Pro Thr Gly			
385	390	395	400
Gly Ile Val Asp Met Ala Ser Ser Thr Phe Gln Gly Ile Gln Arg Ala			
	405	410	415
Ala Glu Ser Thr Glu Glu Val Ser Ser Leu Arg Pro Pro Arg Leu Ile			
	420	425	430
His Glu Asp Gly Ile Ile Arg Pro Tyr Asp Arg Gln Glu Ser Glu Gly			
	435	440	445
Ser Asp Leu Leu Glu Asn His Ile Lys Lys Leu Glu Gly Glu Thr Tyr			
	450	455	460
Arg Tyr His Cys Ala Ile Pro Gly Ser Lys Lys Thr Ile Leu Met Val			
465	470	475	480
Thr Asn Arg Arg Val Leu Cys Ile Lys Glu Val Glu Ile Leu Gly Leu			
	485	490	495
Met Cys Val Asp Trp Gln Cys Pro Phe Glu Asp Phe Val Phe Pro Pro			
	500	505	510
Ser Val Ser Glu Asn Val Leu Lys Ile Ser Val Lys Glu Gln Gly Leu			
	515	520	525
Phe His Lys Lys Asp Ser Ala Asn Gln Gly Cys Val Arg Lys Val Tyr			
	530	535	540
Leu Lys Asp Thr Ala Thr Ala Glu Arg Ala Cys Asn Ala Ile Glu Asp			
545	550	555	560
Ala Gln Ser Thr Arg Gln Gln Gln Lys Leu Met Lys Gln Ser Ser Val			
	565	570	575
Arg Leu Leu Arg Pro Gln Leu Pro Ser			

580

585

<210> 3200

<211> 1685

<212> PRT

<213> Homo sapiens

<400> 3200

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Met Ser Leu Pro Phe Tyr Gln Arg Cys His Gln His Tyr Asp Leu Ser
  1             5             10             15
Tyr Arg Asn Lys Asp Val Arg Ser Thr Val Ser His Tyr Gln Arg Glu
      20             25             30
Lys Lys Arg Ser Ala Val Tyr Thr Gln Gly Ser Thr Ala Tyr Ser Ser
      35             40             45
Arg Ser Ser Ala Ala His Arg Arg Glu Ser Glu Ala Phe Arg Arg Ala
      50             55             60
Ser Ala Ser Ser Ser Gln Gln Gln Ala Ser Gln His Ala Leu Ser Ser
      65             70             75             80
Glu Val Ser Arg Lys Ala Ala Ser Ala Tyr Asp Tyr Gly Ser Ser His
      85             90             95
Gly Leu Thr Asp Ser Ser Leu Leu Leu Asp Asp Tyr Ser Ser Lys Leu
      100            105            110
Ser Pro Lys Pro Lys Arg Ala Lys His Ser Leu Leu Ser Gly Glu Glu
      115            120            125
Lys Glu Asn Leu Pro Ser Asp Tyr Met Val Pro Ile Phe Ser Gly Arg
      130            135            140
Gln Lys His Val Ser Gly Ile Thr Asp Thr Glu Glu Glu Arg Ile Lys
      145            150            155            160
Glu Ala Ala Ala Tyr Ile Ala Gln Arg Asn Leu Leu Ala Ser Glu Glu
      165            170            175
Gly Ile Thr Thr Pro Lys Gln Ser Thr Ala Ser Lys Gln Thr Thr Ala
      180            185            190
Ser Lys Gln Ser Thr Ala Ser Lys Gln Ser Thr Ala Ser Lys Gln Ser
      195            200            205
Thr Ala Ser Arg Gln Ser Thr Ala Ser Arg Gln Ser Val Val Ser Lys

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210	215	220	
Gln Ala Thr Ser Ala	Leu Gln Gln Glu Glu Thr Ser	Glu Lys Lys Ser	
225	230	235	240
Arg Lys Val Val Ile	Arg Glu Lys Ala Glu Arg Leu Ser	Leu Arg Lys	
	245	250	255
Thr Leu Glu Glu Thr	Glu Thr Tyr His Ala Lys Leu Asn	Glu Asp His	
	260	265	270
Leu Leu His Ala Pro	Glu Phe Ile Ile Lys Pro Arg Ser	His Thr Val	
	275	280	285
Trp Glu Lys Glu Asn	Val Lys Leu His Cys Ser Ile Ala Gly	Trp Pro	
290	295	300	
Glu Pro Arg Val Thr	Trp Tyr Lys Asn Gln Val Pro Ile Asn	Val His	
305	310	315	320
Ala Asn Pro Gly Lys	Tyr Ile Ile Glu Ser Arg Tyr Gly	Met His Thr	
	325	330	335
Leu Glu Ile Asn Ala	Cys Asp Phe Glu Asp Thr Ala Gln Tyr	Arg Ala	
	340	345	350
Ser Ala Met Asn Val	Lys Gly Glu Leu Ser Ala Tyr Ala Ser	Val Val	
	355	360	365
Val Lys Arg Tyr Lys	Gly Glu Phe Asp Glu Thr Arg Phe His	Ala Gly	
	370	375	380
Ala Ser Thr Met Pro	Leu Ser Phe Gly Val Thr Pro Tyr Gly Tyr	Ala	
385	390	395	400
Ser Arg Phe Glu Ile	His Phe Asp Asp Lys Phe Asp Val Ser	Phe Gly	
	405	410	415
Arg Glu Gly Glu Thr	Met Ser Leu Gly Cys Arg Val Val Ile Thr	Pro	
	420	425	430
Glu Ile Lys His Phe	Gln Pro Glu Ile Gln Trp Tyr Arg Asn	Gly Val	
	435	440	445
Pro Leu Ser Pro Ser	Lys Trp Val Gln Thr Leu Trp Ser Gly	Glu Arg	
450	455	460	
Ala Thr Leu Thr Phe	Ser His Leu Asn Lys Glu Asp Glu Gly	Leu Tyr	
465	470	475	480
Thr Ile Arg Val Arg	Met Gly Glu Tyr Tyr Glu Gln Tyr Ser	Ala Tyr	
	485	490	495
Val Phe Val Arg Asp	Ala Asp Ala Glu Ile Glu Gly Ala Pro	Ala Ala	

500	505	510
Pro Leu Asp Val Lys Cys Leu Glu Ala Asn Lys Asp Tyr Ile Ile Ile		
515	520	525
Ser Trp Lys Gln Pro Ala Val Asp Gly Gly Ser Pro Ile Leu Gly Tyr		
530	535	540
Phe Ile Asp Lys Cys Glu Val Gly Thr Asp Ser Trp Ser Gln Cys Asn		
545	550	555
Asp Thr Pro Val Lys Phe Ala Arg Phe Pro Val Thr Gly Leu Ile Glu		
565	570	575
Gly Arg Ser Tyr Ile Phe Arg Val Arg Ala Val Asn Lys Met Gly Ile		
580	585	590
Gly Phe Pro Ser Arg Val Ser Glu Pro Val Ala Ala Leu Asp Pro Ala		
595	600	605
Glu Lys Ala Arg Leu Lys Ser Arg Pro Ser Ala Pro Trp Thr Gly Gln		
610	615	620
Ile Ile Val Thr Glu Glu Glu Pro Ser Glu Gly Ile Val Pro Gly Pro		
625	630	635
Pro Thr Asp Leu Ser Val Thr Glu Ala Thr Arg Ser Tyr Val Val Leu		
645	650	655
Ser Trp Lys Pro Pro Gly Gln Arg Gly His Glu Gly Ile Met Tyr Phe		
660	665	670
Val Glu Lys Cys Glu Ala Gly Thr Glu Asn Trp Gln Arg Val Asn Thr		
675	680	685
Glu Leu Pro Val Lys Ser Pro Arg Phe Ala Leu Phe Asp Leu Ala Glu		
690	695	700
Gly Lys Ser Tyr Cys Phe Arg Val Arg Cys Ser Asn Ser Ala Gly Val		
705	710	715
Gly Glu Pro Ser Glu Ala Thr Glu Val Thr Val Val Gly Asp Lys Leu		
725	730	735
Asp Ile Pro Lys Ala Pro Gly Lys Ile Ile Pro Ser Arg Asn Thr Asp		
740	745	750
Thr Ser Val Val Val Ser Trp Glu Glu Ser Lys Asp Ala Lys Glu Leu		
755	760	765
Val Gly Tyr Tyr Ile Glu Ala Ser Val Ala Gly Ser Gly Lys Trp Glu		
770	775	780
Pro Cys Asn Asn Asn Pro Val Lys Gly Ser Arg Phe Thr Cys His Gly		

785	790	795	800
Leu Val Thr Gly Gln Ser Tyr Ile Phe Arg Val Arg Ala Val Asn Ala			
805	810	815	
Ala Gly Leu Ser Glu Tyr Ser Gln Asp Ser Glu Ala Ile Glu Val Lys			
820	825	830	
Ala Ala Ile Gly Gly Gly Val Ser Pro Asp Val Cys Pro Ala Leu Ser			
835	840	845	
Asp Glu Pro Gly Gly Leu Thr Ala Ser Arg Gly Arg Val His Glu Ala			
850	855	860	
Ser Pro Pro Thr Phe Gln Lys Asp Ala Leu Leu Gly Ser Lys Pro Asn			
865	870	875	880
Lys Pro Ser Leu Pro Ser Ser Ser Gln Asn Leu Gly Gln Thr Glu Val			
885	890	895	
Ser Lys Val Ser Glu Thr Val Gln Glu Glu Leu Thr Pro Pro Pro Gln			
900	905	910	
Lys Ala Ala Pro Gln Gly Lys Ser Lys Ser Asp Pro Leu Lys Lys Lys			
915	920	925	
Thr Asp Arg Ala Pro Pro Ser Pro Pro Cys Asp Ile Thr Cys Leu Glu			
930	935	940	
Ser Phe Arg Asp Ser Met Val Leu Gly Trp Lys Gln Pro Asp Lys Thr			
945	950	955	960
Gly Gly Ala Glu Ile Thr Gly Tyr Tyr Val Asn Tyr Arg Glu Val Ile			
965	970	975	
Asp Gly Val Pro Gly Lys Trp Arg Glu Ala Asn Val Lys Ala Val Ser			
980	985	990	
Glu Glu Ala Tyr Lys Ile Ser Asn Ser Lys Glu Asn Met Val Tyr Gln			
995	1000	1005	
Phe Gln Val Ala Ala Met Asn Met Ala Gly Leu Gly Ala Pro Ser Ala			
1010	1015	1020	
Val Ser Glu Cys Phe Lys Cys Glu Glu Trp Thr Ile Ala Val Pro Gly			
1025	1030	1035	1040
Pro Pro His Ser Leu Lys Cys Ser Glu Val Arg Lys Asp Ser Leu Val			
1045	1050	1055	
Leu Gln Trp Lys Pro Pro Val His Ser Gly Arg Thr Pro Val Thr Gly			
1060	1065	1070	
Tyr Phe Val Asp Leu Lys Glu Ala Lys Ala Lys Glu Asp Gln Trp Arg			

1075	1080	1085	
Gly Leu Asn Glu Ala Ala Ile Lys Asn Val Tyr Leu Lys Val Arg Gly			
1090	1095	1100	
Leu Lys Glu Gly Val Ser Tyr Val Phe Arg Val Arg Ala Ile Asn Gln			
1105	1110	1115	1120
Ala Gly Val Gly Lys Pro Ser Asp Leu Ala Gly Pro Val Val Ala Glu			
1125	1130	1135	
Thr Arg Pro Gly Thr Lys Glu Val Val Val Asn Val Asp Asp Asp Gly			
1140	1145	1150	
Val Ile Ser Leu Asn Phe Glu Cys Asp Lys Met Thr Pro Lys Ser Glu			
1155	1160	1165	
Phe Ser Trp Ser Lys Asp Tyr Val Ser Thr Glu Asp Ser Pro Arg Leu			
1170	1175	1180	
Glu Val Glu Ser Lys Gly Asn Lys Thr Lys Met Thr Phe Lys Asp Leu			
1185	1190	1195	1200
Gly Met Asp Asp Leu Gly Ile Tyr Ser Cys Asp Val Thr Asp Thr Asp			
1205	1210	1215	
Gly Ile Ala Ser Ser Tyr Leu Ile Asp Glu Glu Glu Leu Lys Arg Leu			
1220	1225	1230	
Leu Ala Leu Ser His Glu His Lys Phe Pro Thr Val Pro Val Lys Ser			
1235	1240	1245	
Glu Leu Ala Val Glu Ile Leu Glu Lys Gly Gln Val Arg Phe Trp Met			
1250	1255	1260	
Gln Ala Glu Lys Leu Ser Gly Asn Ala Lys Val Asn Tyr Ile Phe Asn			
1265	1270	1275	1280
Glu Lys Glu Ile Phe Glu Gly Pro Lys Tyr Lys Met His Ile Asp Arg			
1285	1290	1295	
Asn Thr Gly Ile Ile Glu Met Phe Met Glu Lys Leu Gln Asp Glu Asp			
1300	1305	1310	
Glu Gly Thr Tyr Thr Phe Gln Leu Gln Asp Gly Lys Ala Thr Asn His			
1315	1320	1325	
Ser Thr Val Val Leu Val Gly Asp Val Phe Lys Lys Leu Gln Lys Glu			
1330	1335	1340	
Ala Glu Phe Gln Arg Gln Glu Trp Ile Arg Lys Gln Gly Pro His Phe			
1345	1350	1355	1360

Val Glu Tyr Leu Ser Trp Glu Val Thr Gly Glu Cys Asn Val Leu Leu			
1365	1370	1375	
Lys Cys Lys Val Ala Asn Ile Lys Lys Glu Thr His Ile Val Trp Tyr			
1380	1385	1390	
Lys Asp Glu Arg Glu Ile Ser Val Asp Glu Lys His Asp Phe Lys Asp			
1395	1400	1405	
Gly Ile Cys Thr Leu Leu Ile Thr Glu Phe Ser Lys Lys Asp Ala Gly			
1410	1415	1420	
Ile Tyr Glu Val Ile Leu Lys Asp Asp Arg Gly Lys Asp Lys Ser Arg			
1425	1430	1435	1440
Leu Lys Leu Val Asp Glu Ala Phe Lys Glu Leu Met Met Glu Val Cys			
1445	1450	1455	
Lys Lys Ile Ala Leu Ser Ala Thr Asp Leu Lys Ile Gln Ser Thr Ala			
1460	1465	1470	
Glu Gly Ile Gln Leu Tyr Ser Phe Val Thr Tyr Tyr Val Glu Asp Leu			
1475	1480	1485	
Lys Val Asn Trp Ser His Asn Gly Ser Ala Ile Arg Tyr Ser Asp Arg			
1490	1495	1500	
Val Lys Thr Gly Val Thr Gly Glu Gln Ile Trp Leu Gln Ile Asn Glu			
1505	1510	1515	1520
Pro Thr Pro Asn Asp Lys Gly Lys Tyr Val Met Glu Leu Phe Asp Gly			
1525	1530	1535	
Lys Thr Gly His Gln Lys Thr Val Asp Leu Ser Gly Gln Ala Tyr Asp			
1540	1545	1550	
Glu Ala Tyr Ala Glu Phe Gln Arg Leu Lys Gln Ala Ala Ile Ala Glu			
1555	1560	1565	
Lys Asn Arg Ala Arg Val Leu Gly Gly Leu Pro Asp Val Val Thr Ile			
1570	1575	1580	
Gln Glu Gly Lys Ala Leu Asn Leu Thr Cys Asn Val Trp Gly Asp Pro			
1585	1590	1595	1600
Pro Pro Glu Val Ser Trp Leu Lys Asn Glu Lys Ala Leu Ala Ser Asp			
1605	1610	1615	
Gly His Cys Asn Leu Lys Phe Glu Ala Gly Arg Thr Ala Tyr Phe Thr			
1620	1625	1630	
Ile Asn Gly Val Ser Thr Ala Asp Ser Gly Lys Tyr Gly Leu Val Val			
1635	1640	1645	

Lys Asn Lys Tyr Gly Ser Glu Thr Ser Asp Phe Thr Val Ser Val Phe
 1650 1655 1660
 Ile Pro Glu Glu Glu Ala Arg Met Ala Ala Leu Glu Ser Leu Lys Gly
 1665 1670 1675 1680
 Gly Lys Lys Ala Lys
 1685

<210> 3201

<211> 1309

<212> PRT

<213> Homo sapiens

<400> 3201

Met Gly Thr His His His Ala Gln Leu Ile Phe Val Phe Leu Val Glu
 1 5 10 15
 Met Arg Phe His Arg Val Asp Gln Ala Gly Leu Glu Leu Leu Thr Ser
 20 25 30
 Gly Asn Ser Pro Ala Ser Ala Ser Arg Ser Ala Glu Ile Thr Val Val
 35 40 45
 Ser Gln His Ala Gln Pro Gly Phe Leu Tyr Gln Trp Leu Glu Ala Asp
 50 55 60
 Arg His Gly Lys Ser Gln Gly Ala Ala Asn Thr Thr Ser Gly Glu Asn
 65 70 75 80
 Phe Asp Gln Ser Pro Leu Lys Arg Thr Phe Lys Ser Lys Val Leu Ala
 85 90 95
 His Tyr Pro Gln Asn Ile Glu Trp Asn Pro Phe Asp Gln Asp Ala Val
 100 105 110
 Asn Met Leu Cys Met Pro Lys Gly Leu Ser Phe Arg Thr Gln Thr Asp
 115 120 125
 Asn Lys Asp Pro Gln Phe His Ser Phe Ile Ile Thr Arg Glu Asp Gly
 130 135 140
 Ser Arg Thr Tyr Gly Phe Val Leu Thr Phe Tyr Glu Glu Val Thr Ser
 145 150 155 160
 Lys Gln Ile Cys Thr Ala Met Gln Thr Leu Tyr Gln Met His Asn Ala
 165 170 175

Glu His Tyr Ser Ser Val Tyr Ala Ser Ser Ser Cys Ser Met Asp Ser
 180 185 190
 Leu Ala Ser Ser Leu Asp Glu Gly Asp Thr Thr Ser Leu Leu Lys Leu
 195 200 205
 Gln Arg Tyr Asn Ser Tyr Asp Ile Ser Arg Asp Thr Leu Tyr Val Ser
 210 215 220
 Lys Ser Ile Cys Leu Ile Thr Pro Leu Pro Phe Met Gln Ala Cys Lys
 225 230 235 240
 Lys Phe Leu Ile Gln Leu Tyr Lys Ala Val Thr Ser Gln Gln Pro Pro
 245 250 255
 Pro Leu Pro Leu Glu Ser Tyr Ile His Asn Ile Leu Tyr Glu Val Pro
 260 265 270
 Leu Pro Pro Pro Gly Arg Ser Leu Lys Phe Tyr Gly Val Tyr Glu Pro
 275 280 285
 Val Ile Cys Gln Arg Pro Gly Pro Ser Glu Leu Pro Leu Ser Asp Tyr
 290 295 300
 Pro Leu Arg Glu Ala Phe Glu Leu Leu Gly Leu Glu Asn Leu Val Gln
 305 310 315 320
 Val Phe Thr Cys Val Leu Leu Glu Met Gln Ile Leu Leu Tyr Ser Gln
 325 330 335
 Asp Tyr Gln Arg Leu Met Thr Val Ala Glu Gly Ile Thr Thr Leu Leu
 340 345 350
 Phe Pro Phe Gln Trp Gln His Val Tyr Val Pro Ile Leu Pro Ala Ser
 355 360 365
 Leu Leu His Phe Leu Asp Ala Pro Val Pro Tyr Leu Met Gly Leu Gln
 370 375 380
 Ser Lys Glu Gly Thr Asp Arg Ser Lys Leu Glu Leu Pro Gln Glu Ala
 385 390 395 400
 Asn Leu Cys Phe Val Asp Ile Asp Asn His Phe Ile Glu Leu Pro Glu
 405 410 415
 Glu Phe Pro Gln Phe Pro Asn Lys Val Asp Phe Ile Gln Glu Leu Ser
 420 425 430
 Glu Val Leu Val Gln Phe Gly Ile Pro Pro Glu Gly Ser Leu His Cys
 435 440 445
 Ser Glu Ser Thr Ser Lys Leu Lys Asn Met Val Leu Lys Asp Leu Val

450	455	460
Asn Asp Lys Lys Asn Gly Asn Val Cys Thr Asn Asn Ile Ser Met Tyr		
465	470	475
Glu Leu Leu Lys Gly Asn Glu Thr Ile Ala Arg Leu Gln Ala Leu Ala		
485	490	495
Lys Arg Thr Gly Val Ala Val Glu Lys Met Asp Leu Ser Ala Ser Leu		
500	505	510
Gly Glu Lys Asp Lys Asp Leu Lys Leu His Cys Glu Glu Ala Glu Leu		
515	520	525
Arg Asp Tyr Gln Leu Asn Val Gln Leu Arg Glu Val Phe Ala Asn Arg		
530	535	540
Phe Thr Gln Met Phe Ala Asp Tyr Glu Ala Phe Val Ile Gln Thr Ala		
545	550	555
Gln Asp Met Glu Ser Trp Leu Thr Asn Arg Glu Gln Met Gln Asn Phe		
565	570	575
Asp Lys Ala Ser Phe Leu Ser Asp Gln Pro Glu Pro Tyr Leu Pro Phe		
580	585	590
Leu Ser Arg Phe Ile Glu Thr Gln Met Phe Ala Thr Phe Ile Asp Asn		
595	600	605
Lys Ile Met Ser Gln Trp Glu Glu Lys Asp Pro Leu Leu Arg Val Phe		
610	615	620
Asp Thr Arg Ile Asp Lys Ile Arg Leu Tyr Asn Val Arg Ala Pro Thr		
625	630	635
Leu Arg Thr Ser Ile Tyr Gln Lys Cys Ser Thr Leu Lys Glu Ala Ala		
645	650	655
Gln Ser Ile Glu Gln Arg Leu Met Lys Met Asp His Thr Ala Ile His		
660	665	670
Pro His Leu Leu Asp Met Lys Ile Gly Gln Gly Lys Tyr Glu Gln Gly		
675	680	685
Phe Phe Pro Lys Leu Gln Ser Asp Val Leu Ala Thr Gly Pro Thr Ser		
690	695	700
Asn Asn Arg Trp Val Ser Arg Ser Ala Thr Ala Gln Arg Arg Lys Glu		
705	710	715
Arg Leu Arg Gln His Ser Glu His Val Gly Leu Asp Asn Asp Leu Arg		
725	730	735
Glu Lys Tyr Met Gln Glu Ala Arg Ser Leu Gly Lys Asn Leu Arg Gln		

740	745	750
Pro Lys Leu Ser Asp Leu Ser	Pro Ala Val Ile Ala Gln Thr Asn Cys	
755	760	765
Lys Phe Val Glu Gly Leu Leu Lys Glu Cys Arg Met Lys Thr Lys Arg		
770	775	780
Met Leu Val Glu Lys Met Gly His Glu Ala Val Glu Leu Gly His Gly		
785	790	795
Glu Ala Asn Ile Thr Gly Leu Glu Glu Asn Thr Leu Ile Ala Ser Leu		
805	810	815
Cys Asp Leu Leu Glu Arg Ile Trp Ser His Gly Leu Gln Val Lys Gln		
820	825	830
Gly Lys Ser Ala Leu Trp Ser His Leu Ile Gln Phe Gln Asp Arg Glu		
835	840	845
Glu Lys Gln Glu His Leu Ala Glu Ser Pro Val Ala Leu Gly Pro Glu		
850	855	860
Arg Arg Lys Ser Asp Ser Gly Val Met Leu Pro Thr Leu Arg Val Ser		
865	870	875
Leu Ile Gln Asp Met Arg His Ile Gln Asn Met Ser Glu Ile Lys Thr		
885	890	895
Asp Val Gly Arg Ala Arg Ala Trp Ile Arg Leu Ser Leu Glu Lys Lys		
900	905	910
Leu Leu Ser Gln His Leu Lys Gln Leu Leu Ser Asn Gln Pro Leu Thr		
915	920	925
Lys Lys Leu Tyr Lys Arg Tyr Ala Phe Leu Arg Cys Glu Glu Glu Arg		
930	935	940
Glu Gln Phe Leu Tyr His Leu Leu Ser Leu Asn Ala Val Asp Tyr Phe		
945	950	955
Cys Phe Thr Ser Val Phe Thr Thr Ile Met Ile Pro Tyr Arg Ser Val		
965	970	975
Ile Ile Pro Ile Lys Lys Leu Ser Asn Ala Ile Ile Thr Ser Asn Pro		
980	985	990
Trp Ile Cys Val Ser Gly Glu Leu Gly Asp Thr Gly Val Met Gln Ile		
995	1000	1005
Pro Lys Asn Leu Leu Glu Met Thr Phe Glu Cys Gln Asn Leu Gly Lys		
1010	1015	1020
Leu Thr Thr Val Gln Ile Gly His Asp Asn Ser Gly Leu Leu Ala Lys		

1025	1030	1035	1040
Trp Leu Val Asp Cys Val Met Val Arg Asn Glu Ile Thr Gly His Thr			
1045	1050	1055	
Tyr Arg Phe Pro Cys Gly Arg Trp Leu Gly Lys Gly Ile Asp Asp Gly			
1060	1065	1070	
Ser Leu Glu Arg Ile Leu Ile Gly Glu Leu Met Thr Ser Ala Ser Asp			
1075	1080	1085	
Glu Asp Leu Val Lys Gln Cys Arg Thr Pro Pro Gln Gln Lys Ser Pro			
1090	1095	1100	
Thr Thr Ala Arg Arg Leu Ser Ile Thr Ser Leu Thr Gly Lys Asn Asn			
1105	1110	1115	1120
Lys Pro Asn Ala Gly Gln Ile Gln Glu Gly Ile Gly Glu Ala Val Asn			
1125	1130	1135	
Asn Ile Val Lys His Phe His Lys Pro Glu Lys Glu Arg Gly Ser Leu			
1140	1145	1150	
Thr Val Leu Leu Cys Gly Glu Asn Gly Leu Val Ala Ala Leu Glu Gln			
1155	1160	1165	
Val Phe His His Gly Phe Lys Ser Ala Arg Ile Phe His Lys Asn Val			
1170	1175	1180	
Phe Ile Trp Asp Phe Ile Glu Lys Val Val Ala Tyr Phe Glu Thr Thr			
1185	1190	1195	1200
Asp Gln Ile Leu Asp Asn Glu Asp Asp Val Leu Ile Gln Lys Ser Ser			
1205	1210	1215	
Cys Lys Thr Phe Cys His Tyr Val Asn Ala Ile Asn Thr Ala Pro Arg			
1220	1225	1230	
Asn Ile Gly Lys Asp Gly Lys Phe Gln Ile Leu Val Cys Leu Gly Thr			
1235	1240	1245	
Arg Asp Arg Leu Leu Pro Gln Trp Ile Pro Leu Leu Ala Glu Cys Pro			
1250	1255	1260	
Ala Ile Thr Arg Met Tyr Glu Glu Ser Ala Leu Leu Arg Asp Arg Met			
1265	1270	1275	1280
Thr Val Asn Ser Leu Ile Arg Ile Leu Gln Thr Ile Gln Asp Phe Thr			
1285	1290	1295	
Ile Val Leu Glu Gly Ser Leu Ile Lys Gly Val Asp Val			
1300	1305		

<210> 3202

<211> 1266

<212> PRT

<213> Homo sapiens

<400> 3202

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Met Tyr Glu Leu Val Tyr Trp Ala Ala Glu Asp Glu Asp Gln Gln His
  1              5              10              15
Lys Val Thr Phe Asp Pro Thr Ser Ser Tyr Thr Leu Glu Asp Leu Lys
      20              25              30
Pro Asp Thr Leu Tyr Arg Phe Gln Leu Ala Ala Arg Ser Asp Met Gly
      35              40              45
Val Gly Val Phe Thr Pro Thr Ile Glu Ala Arg Thr Ala Gln Ser Met
      50              55              60
Pro Ser Gly Pro Pro Arg Lys Val Glu Val Glu Pro Leu Asn Ser Thr
      65              70              75              80
Ala Val His Val Tyr Trp Lys Leu Pro Val Pro Ser Lys Gln His Gly
      85              90              95
Gln Ile Arg Gly Tyr Gln Val Thr Tyr Val Arg Leu Glu Asn Gly Glu
      100             105             110
Pro Arg Gly Leu Pro Ile Ile Gln Asp Val Met Leu Ala Glu Ala Gln
      115             120             125
Glu Thr Thr Ile Ser Gly Leu Thr Pro Glu Thr Thr Tyr Ser Val Thr
      130             135             140
Val Ala Ala Tyr Thr Thr Lys Gly Asp Gly Ala Arg Ser Lys Pro Lys
      145             150             155             160
Ile Val Thr Thr Thr Gly Ala Val Pro Gly Arg Pro Thr Met Met Ile
      165             170             175
Ser Thr Thr Ala Met Asn Thr Ala Leu Leu Gln Trp His Pro Pro Lys
      180             185             190
Glu Leu Pro Gly Glu Leu Leu Gly Tyr Arg Leu Gln Tyr Cys Arg Ala
      195             200             205
Asp Glu Ala Arg Pro Asn Thr Ile Asp Phe Gly Lys Asp Asp Gln His
      210             215             220
Phe Thr Val Thr Gly Leu His Lys Gly Thr Thr Tyr Ile Phe Arg Leu

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225	230	235	240
Ala Ala Lys Asn Arg	Ala Gly Leu Gly Glu Glu Phe	Glu Lys Glu Ile	
245	250	255	
Arg Thr Pro Glu Asp	Leu Pro Ser Gly Phe Pro Gln Asn	Leu His Val	
260	265	270	
Thr Gly Leu Thr Thr Ser Thr	Thr Glu Leu Ala Trp Asp	Pro Pro Val	
275	280	285	
Leu Ala Glu Arg Asn Gly	Arg Ile Ile Ser Tyr Thr	Val Val Phe Arg	
290	295	300	
Asp Ile Asn Ser Gln Gln	Glu Leu Gln Asn Ile Thr Thr	Asp Thr Arg	
305	310	315	320
Phe Thr Leu Thr Gly Leu	Lys Pro Asp Thr Thr Tyr Asp	Ile Lys Val	
325	330	335	
Arg Ala Trp Thr Ser Lys	Gly Ser Gly Pro Leu Ser Pro	Ser Ile Gln	
340	345	350	
Ser Arg Thr Met Pro Val	Glu Gln Val Phe Ala Lys Asn	Phe Arg Val	
355	360	365	
Ala Ala Ala Met Lys Thr	Ser Val Leu Leu Ser Trp Glu	Val Pro Asp	
370	375	380	
Ser Tyr Lys Ser Ala Val	Pro Phe Lys Ile Leu Tyr Asn	Gly Gln Ser	
385	390	395	400
Val Glu Val Asp Gly His	Ser Met Arg Lys Leu Ile Ala	Asp Leu Gln	
405	410	415	
Pro Asn Thr Glu Tyr Ser	Phe Val Leu Met Asn Arg Gly	Ser Ser Ala	
420	425	430	
Gly Gly Leu Gln His Leu	Val Ser Ile Arg Thr Ala Pro	Asp Leu Leu	
435	440	445	
Pro His Lys Pro Leu Pro	Ala Ser Ala Tyr Ile Glu Asp	Gly Arg Phe	
450	455	460	
Asp Leu Ser Met Pro His	Val Gln Asp Pro Ser Leu Val	Arg Trp Phe	
465	470	475	480
Tyr Ile Val Val Val Pro	Ile Asp Arg Val Gly Gly Ser	Met Leu Thr	
485	490	495	
Pro Arg Trp Ser Thr Pro	Glu Glu Leu Glu Leu Asp	Glu Leu Leu Glu	
500	505	510	
Ala Ile Glu Gln Gly Gly	Glu Glu Gln Arg Arg Arg	Arg Arg Gln Ala	

515	520	525
Glu Arg Leu Lys Pro Tyr Val	Ala Ala Gln Leu Asp Val	Leu Pro Glu
530	535	540
Thr Phe Thr Leu Gly Asp Lys	Lys Asn Tyr Arg Gly Phe Tyr	Asn Arg
545	550	555
Pro Leu Ser Pro Asp Leu Ser Tyr	Gln Cys Phe Val Leu Ala Ser	Leu
565	570	575
Lys Glu Pro Met Asp Gln Lys Arg Tyr	Ala Ser Ser Pro Tyr Ser	Asp
580	585	590
Glu Ile Val Val Gln Val Thr Pro	Ala Gln Gln Gln Glu Glu Pro	Glu
595	600	605
Met Leu Trp Val Thr Gly Pro Val	Leu Ala Val Ile Leu Ile Ile	Leu
610	615	620
Ile Val Ile Ala Ile Leu Leu Phe	Lys Arg Lys Arg Thr His Ser	Pro
625	630	635
Ser Ser Lys Gly Glu Gln Ser Ile	Gly Leu Lys Asp Ser Leu Leu	Ala
645	650	655
His Ser Ser Asp Pro Val Glu Met	Arg Arg Leu Asn Tyr Gln Thr	Pro
660	665	670
Gly Ser Ser Val Pro Ser Cys Pro	Asn Thr Ser Ser Met Arg Asp	His
675	680	685
Pro Pro Ile Pro Ile Thr Asp Leu	Ala Asp Asn Ile Glu Arg Leu	Lys
690	695	700
Ala Asn Asp Gly Leu Lys Phe Ser	Gln Glu Tyr Glu Ser Ile Asp	Pro
705	710	715
Gly Gln Gln Phe Thr Trp Glu Asn	Ser Asn Leu Glu Val Asn Lys	Pro
725	730	735
Lys Asn Arg Tyr Ala Asn Val Ile	Ala Tyr Asp His Ser Arg Val	Ile
740	745	750
Leu Thr Ser Ile Asp Gly Val Pro	Gly Ser Asp Tyr Ile Asn Ala	Asn
755	760	765
Tyr Ile Asp Gly Tyr Arg Lys Gln	Asn Ala Tyr Ile Ala Thr Gln	Gly
770	775	780
Pro Leu Pro Glu Thr Met Gly Asp	Phe Trp Arg Met Val Trp Glu	Gln
785	790	795
Arg Thr Ala Thr Val Val Met Met	Thr Arg Leu Glu Glu Lys Ser	Arg

	805		810		815										
Val	Lys	Cys	Asp	Gln	Tyr	Trp	Pro	Ala	Arg	Gly	Thr	Glu	Thr	Cys	Gly
	820		825		830										
Leu	Ile	Gln	Val	Thr	Leu	Leu	Asp	Thr	Val	Glu	Leu	Ala	Thr	Tyr	Thr
	835		840		845										
Val	Arg	Thr	Phe	Ala	Leu	His	Lys	Ser	Gly	Ser	Ser	Glu	Lys	Arg	Glu
	850		855		860										
Leu	Arg	Gln	Phe	Gln	Phe	Met	Ala	Trp	Pro	Asp	His	Gly	Val	Pro	Glu
865			870		875									880	
Tyr	Pro	Thr	Pro	Ile	Leu	Ala	Phe	Leu	Arg	Arg	Val	Lys	Ala	Cys	Asn
	885		890		895										
Pro	Leu	Asp	Ala	Gly	Pro	Met	Val	Val	His	Cys	Ser	Ala	Gly	Val	Gly
	900		905		910										
Arg	Thr	Gly	Cys	Phe	Ile	Val	Ile	Asp	Ala	Met	Leu	Glu	Arg	Met	Lys
	915		920		925										
His	Glu	Lys	Thr	Val	Asp	Ile	Tyr	Gly	His	Val	Thr	Cys	Met	Arg	Ser
	930		935		940										
Gln	Arg	Asn	Tyr	Met	Val	Gln	Thr	Glu	Asp	Gln	Tyr	Val	Phe	Ile	His
945			950		955									960	
Glu	Ala	Leu	Leu	Glu	Ala	Ala	Thr	Cys	Gly	His	Thr	Glu	Val	Pro	Ala
	965		970		975										
Arg	Asn	Leu	Tyr	Ala	His	Ile	Gln	Lys	Leu	Gly	Gln	Val	Pro	Pro	Gly
	980		985		990										
Glu	Ser	Val	Thr	Ala	Met	Glu	Leu	Glu	Phe	Lys	Leu	Leu	Ala	Ser	Ser
	995		1000		1005										
Lys	Ala	His	Thr	Ser	Arg	Phe	Ile	Ser	Ala	Asn	Leu	Pro	Cys	Asn	Lys
	1010		1015		1020										
Phe	Lys	Asn	Arg	Leu	Val	Asn	Ile	Met	Pro	Tyr	Glu	Leu	Thr	Arg	Val
1025			1030		1035									1040	
Cys	Leu	Gln	Pro	Ile	Arg	Gly	Val	Glu	Gly	Ser	Asp	Tyr	Ile	Asn	Ala
	1045		1050		1055										
Ser	Phe	Leu	Asp	Gly	Tyr	Arg	Gln	Gln	Lys	Ala	Tyr	Ile	Ala	Thr	Gln
	1060		1065		1070										
Gly	Pro	Leu	Ala	Glu	Ser	Thr	Glu	Asp	Phe	Trp	Arg	Met	Leu	Trp	Glu
	1075		1080		1085										
His	Asn	Ser	Thr	Ile	Ile	Val	Met	Leu	Thr	Lys	Leu	Arg	Glu	Met	Gly

1090	1095	1100	
Arg Glu Lys Cys His Gln Tyr Trp Pro Ala Glu Arg Ser Ala Arg Tyr			
1105	1110	1115	1120
Gln Tyr Phe Val Val Asp Pro Met Ala Glu Tyr Asn Met Pro Gln Tyr			
	1125	1130	1135
Ile Leu Arg Glu Phe Lys Val Thr Asp Ala Arg Asp Gly Gln Ser Arg			
1140	1145	1150	

Thr Ile Arg Gln Ser Gln Phe Thr Asp Trp Pro Glu Gln Gly Val Pro			
1155	1160	1165	
Lys Thr Gly Glu Gly Phe Ile Asp Phe Ile Gly Gln Val His Lys Thr			
1170	1175	1180	
Lys Glu Gln Phe Gly Gln Asp Gly Pro Ile Thr Val His Cys Ser Ala			
1185	1190	1195	1200
Gly Val Gly Arg Thr Gly Val Phe Ile Thr Leu Ser Ile Val Leu Glu			
	1205	1210	1215
Arg Met Arg Tyr Glu Gly Val Val Asp Met Phe Gln Thr Val Lys Thr			
1220	1225	1230	
Leu Arg Thr Gln Arg Pro Ala Met Val Gln Thr Glu Asp Gln Tyr Gln			
1235	1240	1245	
Leu Cys Tyr Arg Ala Ala Leu Glu Tyr Leu Gly Ser Phe Asp His Tyr			
1250	1255	1260	
Ala Thr			
1265			

<210> 3203

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3203

Met Cys Ser Arg Ser Ser His Gly Gly Ala Gln Arg Ser Gly Leu Arg			
1	5	10	15
Gly Asp Ala Cys Thr Val Gln Glu Arg Gly Ala Pro Cys Arg Ala Ser			
	20	25	30
Ala Val Gly Gly Ala Gln Ala Pro Arg Val Gly Ala Gly Val Val Ser			

35	40	45
Thr Val His Ile Cys Thr Tyr Val Arg Thr Arg Leu Trp Gly Thr Glu		
50	55	60
Gly Pro Phe Ala Leu Pro Gly Asp Trp Ser Arg Val Ala Gly Pro Thr		
65	70	75
Cys Thr Ala Cys Pro Gln Lys Gly Gln Gly Lys Ala Ser Ser Ile Pro		
85	90	95
Leu Gly Pro Gln Pro Pro Thr Cys Leu Gly Lys His Gly Ser Trp Arg		
100	105	110
Pro Arg Glu Ala Thr Thr Leu Leu Ser Arg Gln Ala Pro Asn		
115	120	125

<210> 3204

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3204

Met Leu Arg Phe Ser His Cys Arg Leu Cys Thr Ile Ser Ile Cys Pro		
1	5	10
Val Thr Cys Asn Ala Gln Trp Ile Thr Cys Leu Arg Trp Cys Leu Pro		
20	25	30
Ser Cys Ser Thr Ile Lys Leu Phe Phe Ser Phe Leu Leu Leu Ile Arg		
35	40	45
Ile Leu Trp Gly Gly Thr Leu Lys Val Tyr Lys Asn Leu Ile Val His		
50	55	60
Pro Thr Phe Ser Ser Phe Thr Tyr Leu Phe Ile Ser Val Trp Thr His		
65	70	75
Asp Phe Gln Cys Tyr Ser Met Gly Tyr Asn Pro Leu Leu Ser Leu Phe		
85	90	95
Ile Leu Met Leu Arg Ser Ser Pro Ile Trp Pro Met Gly Pro Pro Leu		
100	105	110
Ser Ser Phe Thr His Ser Lys Lys Glu Lys Lys Lys Phe Pro Met Ile		
115	120	125
Thr		

<210> 3205

<211> 1281

<212> PRT

<213> Homo sapiens

<400> 3205

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Met Ile Ser Thr Leu Ala Thr Phe Pro Pro Phe Leu His Lys Asp Ile
  1             5             10             15
Ile Glu Tyr Leu Ser Thr Ser Phe Leu Pro Met Ala Ile Leu Gly Ser
      20             25             30
Ser Arg Arg Glu Gly Val Pro Ala His Val Asn Leu Ser Ala Ser Ser
      35             40             45
Met Leu Met Ile Ala Met Gln Tyr Thr Ser Asn Pro Val Tyr His Cys
      50             55             60
Gln Leu Leu Glu Cys Leu Met Lys Tyr Lys Gln Glu Val Trp Lys Asp
      65             70             75             80
Leu Leu Tyr Val Ile Ala Tyr Gly Pro Ser Gln Val Lys Pro Pro Ala
      85             90             95
Val Gln Met Leu Phe His Tyr Trp Pro Asn Leu Lys Pro Pro Gly Ala
      100            105            110
Ile Ser Glu Tyr Arg Gly Leu Gln Tyr Thr Ala Trp Asn Pro Ile His
      115            120            125
Cys Gln His Ile Glu Cys His Asn Ala Ile Asn Lys Pro Ala Val Lys
      130            135            140
Met Cys Ile Asp Pro Ser Leu Ser Val Ala Leu Gly Asp Lys Pro Pro
      145            150            155            160
Pro Leu Tyr Leu Cys Glu Glu Cys Ser Glu Arg Ile Ala Gly Asp His
      165            170            175
Ser Glu Trp Leu Ile Asp Val Leu Leu Pro Gln Ala Glu Ile Ser Ala
      180            185            190
Ile Cys Gln Lys Lys Asn Cys Ser Ser His Val Arg Arg Ala Val Val
      195            200            205
Thr Cys Phe Ser Ala Gly Cys Cys Gly Arg His Gly Asn Arg Pro Val

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210	215	220	
Arg Tyr Cys Lys Arg Cys His Ser Asn His His Ser Asn Glu Val Gly			
225	230	235	240
Ala Ala Ala Glu Thr His Leu Tyr Gln Thr Ser Pro Pro Pro Ile Asn			
	245	250	255
Thr Arg Glu Cys Gly Ala Glu Glu Leu Val Cys Ala Val Glu Ala Val			
	260	265	270
Ile Ser Leu Leu Lys Glu Ala Glu Phe His Ala Glu Gln Arg Glu His			
	275	280	285
Glu Leu Asn Arg Arg Arg Gln Leu Gly Leu Ser Ser Ser His His Ser			
	290	295	300
Leu Asp Asn Ala Asp Phe Asp Asn Lys Asp Asp Asp Arg His Asp Gln			
305	310	315	320
Arg Leu Leu Ser Gln Phe Gly Ile Trp Phe Leu Val Ser Leu Cys Thr			
	325	330	335
Pro Ser Glu Asn Thr Pro Thr Glu Ser Leu Ala Arg Leu Val Ala Met			
	340	345	350
Val Phe Gln Trp Phe His Ser Thr Ala Tyr Met Met Asp Asp Glu Val			
	355	360	365
Gly Ser Leu Val Glu Lys Leu Lys Pro Gln Phe Val Thr Lys Trp Leu			
	370	375	380
Lys Thr Val Cys Asp Val Arg Phe Asp Val Met Val Met Cys Leu Leu			
385	390	395	400
Pro Lys Pro Met Glu Phe Ala Arg Val Gly Gly Tyr Trp Asp Lys Ser			
	405	410	415
Cys Ser Thr Val Thr Gln Leu Lys Glu Gly Leu Asn Arg Ile Leu Cys			
	420	425	430
Leu Ile Pro Tyr Asn Val Ile Asn Gln Ser Val Trp Glu Cys Ile Met			
	435	440	445
Pro Glu Trp Leu Glu Ala Ile Arg Thr Glu Val Pro Asp Asn Gln Leu			
	450	455	460
Lys Glu Phe Arg Glu Val Leu Ser Lys Met Phe Asp Ile Glu Leu Cys			
465	470	475	480
Pro Leu Pro Phe Ser Met Glu Glu Met Phe Gly Phe Ile Ser Cys Arg			
	485	490	495
Phe Thr Gly Tyr Pro Ser Ser Val Gln Glu Gln Ala Leu Leu Trp Leu			

500	505	510
His Val Leu Ser Glu Leu Asp Ile Met Val Pro Leu Gln Leu Leu Ile		
515	520	525
Ser Met Phe Ser Asp Gly Val Asn Ser Val Lys Glu Leu Ala Asn Gln		
530	535	540
Arg Lys Ser Arg Val Ser Glu Leu Ala Gly Asn Leu Ala Ser Arg Arg		
545	550	555
Val Ser Val Ala Ser Asp Pro Gly Arg Arg Val Gln His Asn Met Leu		
565	570	575
Ser Pro Phe His Ser Pro Phe Gln Ser Pro Phe Arg Ser Pro Leu Arg		
580	585	590
Ser Pro Phe Arg Ser Pro Phe Lys Asn Phe Gly His Pro Gly Gly Arg		
595	600	605
Thr Ile Asp Phe Asp Cys Glu Asp Asp Glu Met Asn Leu Asn Cys Phe		
610	615	620
Ile Leu Met Phe Asp Leu Leu Leu Lys Gln Met Glu Leu Gln Asp Asp		
625	630	635
Gly Ile Thr Met Gly Leu Glu His Ser Leu Ser Lys Asp Ile Ile Ser		
645	650	655
Ile Ile Asn Asn Val Phe Gln Ala Pro Trp Gly Gly Ser His Thr Cys		
660	665	670
Gln Lys Asp Glu Lys Ala Ile Glu Cys Asn Leu Cys Gln Ser Ser Ile		
675	680	685
Leu Cys Tyr Gln Leu Ala Cys Glu Leu Leu Glu Arg Leu Ala Pro Lys		
690	695	700
Glu Glu Ser Arg Leu Val Glu Pro Thr Asp Ser Leu Glu Asp Ser Leu		
705	710	715
Leu Ser Ser Arg Pro Glu Phe Ile Ile Gly Pro Glu Gly Glu Glu Glu		
725	730	735
Glu Asn Pro Ala Ser Lys His Gly Glu Asn Pro Gly Asn Cys Thr Glu		
740	745	750
Pro Val Glu His Ala Ala Val Lys Asn Asp Thr Glu Arg Lys Phe Cys		
755	760	765
Tyr Gln Gln Leu Pro Val Thr Leu Arg Leu Ile Tyr Thr Ile Phe Gln		
770	775	780
Glu Met Ala Lys Phe Glu Glu Pro Asp Ile Leu Phe Asn Met Leu Asn		

785	790	795	800
Cys Leu Lys Ile Leu Cys Leu His Gly Glu Cys Leu Tyr Ile Ala Arg			
805	810	815	
Lys Asp His Pro Gln Phe Leu Ala Tyr Ile Gln Asp His Met Leu Ile			
820	825	830	
Ala Ser Leu Trp Arg Val Val Lys Ser Glu Phe Ser Gln Leu Ser Ser			
835	840	845	
Leu Ala Val Pro Leu Leu Leu His Ala Leu Ser Leu Pro His Gly Ala			
850	855	860	
Asp Ile Phe Trp Thr Ile Ile Asn Gly Asn Phe Asn Ser Lys Asp Trp			
865	870	875	880
Lys Met Arg Phe Glu Ala Val Glu Lys Val Ala Val Ile Cys Arg Phe			
885	890	895	
Leu Asp Ile His Ser Val Thr Lys Asn His Leu Leu Lys Tyr Ser Leu			
900	905	910	
Ala His Ala Phe Cys Cys Phe Leu Thr Ala Val Glu Asp Val Asn Pro			
915	920	925	
Ala Val Ala Thr Arg Ala Gly Leu Leu Leu Asp Thr Ile Lys Arg Pro			
930	935	940	
Ala Leu Gln Gly Leu Cys Leu Cys Leu Asp Phe Gln Phe Asp Thr Val			
945	950	955	960
Val Lys Asp Arg Pro Thr Ile Leu Ser Lys Leu Leu Leu Leu His Phe			
965	970	975	
Leu Lys Gln Asp Ile Pro Ala Leu Ser Trp Glu Phe Phe Val Asn Arg			
980	985	990	
Phe Glu Thr Leu Ser Leu Glu Ala Gln Leu His Leu Asp Cys Asn Lys			
995	1000	1005	
Glu Phe Pro Phe Pro Thr Thr Ile Thr Ala Val Arg Thr Asn Val Ala			
1010	1015	1020	
Asn Leu Ser Asp Ala Ala Leu Trp Lys Ile Lys Arg Ala Arg Phe Ala			
1025	1030	1035	1040
Arg Asn Arg Gln Lys Ser Val Arg Ser Leu Arg Asp Ser Val Lys Gly			
1045	1050	1055	
Pro Val Glu Ser Lys Arg Ala Leu Ser Leu Pro Glu Thr Leu Thr Ser			
1060	1065	1070	
Lys Ile Arg Gln Gln Ser Pro Glu Asn Asp Asn Thr Ile Lys Asp Leu			

1075	1080	1085
Leu Pro Glu Asp Ala Gly Ile Asp His Gln Thr Val His Gln Leu Ile		
1090	1095	1100
Thr Val Pro Met Lys Phe Met Ala Lys Asp Glu Ser Ser Ala Glu Ser		
1105	1110	1115
Asp Ile Ser Ser Ala Lys Ala Phe Asn Thr Val Lys Arg His Leu Tyr		
1125	1130	1135
Val Leu Leu Gly Tyr Asp Gln Gln Glu Gly Cys Phe Met Ile Ala Pro		
1140	1145	1150
Gln Lys Met Arg Leu Ser Thr Cys Phe Asn Ala Phe Ile Ala Gly Ile		
1155	1160	1165
Ala Gln Val Met Asp Tyr Asn Ile Asn Leu Gly Lys His Leu Leu Pro		
1170	1175	1180
Leu Val Val Gln Val Leu Lys Tyr Cys Ser Cys Pro Gln Leu Arg His		
1185	1190	1195
Tyr Phe Gln Gln Pro Pro Arg Cys Ser Leu Trp Ser Leu Lys Pro His		
1205	1210	1215
Ile Arg Gln Met Trp Leu Lys Ala Leu Leu Val Ile Leu Tyr Lys Tyr		
1220	1225	1230
Pro Tyr Arg Asp Cys Asp Ile Ser Lys Ile Leu Leu His Leu Ile His		
1235	1240	1245
Ile Thr Val Asn Thr Leu Asn Ala Gln Tyr His Ser Cys Lys Pro His		
1250	1255	1260
Ala Thr Ala Gly Pro Leu Tyr Ser Asp Asn Ser Asn Ile Ser Arg Tyr		
1265	1270	1275
		1280
Ser		

<210> 3206

<211> 534

<212> PRT

<213> Homo sapiens

<400> 3206

Met Ile Ser Cys Ala Glu Gln Arg Ser Arg Gln Gly Glu Ala Gly Arg

1	5	10	15
Gly Pro Ala Pro Val Ala Pro Ala Phe Leu Pro Leu Trp Leu Pro Arg			
20	25	30	
Gly Cys Ser Gly Ile Leu Ser Val Pro Ala Val Ala Met His Ser Ala			
35	40	45	
Gly Thr Pro Arg Ala Glu Ser Pro Met Ser Arg Gln Glu Lys Asp Ala			
50	55	60	
Glu Leu Asp Arg Arg Ile Val Ala Leu Arg Lys Lys Asn Gln Ala Leu			
65	70	75	80
Leu Arg Arg Tyr Gln Glu Ile Gln Glu Asp Arg Arg Gln Ala Glu Gln			
85	90	95	
Gly Gly Met Ala Val Thr Thr Pro Ala Leu Leu Gln Pro Asp Gly Leu			
100	105	110	
Thr Val Thr Ile Ser Gln Val Pro Gly Glu Lys Arg Val Val Ser Arg			
115	120	125	
Asn Trp Ala Arg Gly Thr Cys Gly Pro Arg Val Thr Asn Glu Met Leu			
130	135	140	
Glu Asp Glu Asp Ala Glu Asp His Gly Gly Thr Phe Cys Leu Gly Glu			
145	150	155	160
Leu Val Glu Leu Ala Val Thr Met Glu Asn Lys Ala Glu Gly Lys Arg			
165	170	175	
Ile Val Ser Glu Lys Pro Thr Arg Ala Arg Asn Gln Gly Ile Glu Gly			
180	185	190	
Ser Pro Gly Gly Arg Val Thr Arg Ser Pro Pro Thr Gln Val Ala Ile			
195	200	205	
Ser Ser Asp Ser Ala Arg Lys Gly Ser Trp Glu Pro Trp Ser Arg Pro			
210	215	220	
Val Gly Glu Pro Pro Glu Ala Gly Trp Asp Tyr Ala Gln Trp Lys Gln			
225	230	235	240
Glu Arg Glu Gln Ile Asp Leu Ala Arg Leu Ala Arg His Arg Asp Ala			
245	250	255	
Gln Gly Asp Trp Arg Arg Pro Trp Asp Leu Asp Lys Ala Lys Ser Thr			
260	265	270	
Leu Gln Asp Cys Ser Gln Leu Arg Gly Glu Gly Pro Ala Arg Ala Gly			
275	280	285	
Ser Arg Arg Gly Pro Arg Ser His Gln Lys Leu Gln Pro Pro Pro Leu			

290	295	300	
Leu Pro Asp Gly Lys Gly Arg Gly Gly Gln Ala Ser Arg Pro Ser Val			
305	310	315	320
Ala Pro Ala Thr Gly Ser Lys Ala Arg Gly Lys Glu Arg Leu Thr Gly			
	325 .	330	335
Arg Ala Arg Arg Trp Asp Met Lys Glu Asp Lys Glu Glu Leu Glu Gly			
	340	345	350
Gln Glu Gly Ser Gln Ser Thr Arg Glu Thr Pro Ser Glu Glu Glu Gln			
	355	360	365
Ala Gln Lys Gln Ser Gly Met Glu Gln Gly Arg Leu Gly Ser Ala Pro			
370	375	380	
Ala Ala Ser Pro Ala Leu Ala Ser Pro Glu Gly Pro Lys Gly Glu Ser			
385	390	395	400
Val Ala Ser Thr Ala Ser Ser Val Pro Cys Ser Pro Gln Glu Pro Asp			
	405	410	415
Leu Ala Pro Leu Asp Leu Ser Leu Gly Gly Ala Gly Ile Pro Gly Pro			
	420	425	430
Arg Glu Ser Gly Cys Val Leu Gly Leu Arg Pro Gly Ala Gln Glu Ser			
	435	440	445
Pro Val Ser Trp Pro Glu Gly Ser Lys Gln Gln Pro Leu Gly Trp Ser			
450	455	460	
Asn His Gln Ala Glu Leu Glu Val Gln Thr Cys Pro Glu Pro Gln Arg			
465	470	475	480
Gly Ala Gly Leu Pro Glu Pro Gly Glu Asp Arg Ser Gly Lys Ser Gly			
	485	490	495
Ala Gln Gln Gly Leu Ala Pro Arg Ser Arg Pro Thr Arg Gly Gly Ser			
	500	505	510
Gln Arg Ser Arg Gly Thr Ala Gly Val Arg Arg Arg Thr Gly Arg Pro			
	515	520	525
Gly Pro Ala Gly Arg Cys			
530			

<210> 3207

<211> 1375

<212> PRT

<213> Homo sapiens

<400> 3207

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Met Lys Cys Leu Cys Leu Gln Ala Leu Ala Ile Val Tyr Gly Arg Cys
  1             5             10             15
His Glu Glu Ile Gly Pro Phe Thr Asp Thr Arg Tyr Ile Ile Gly Met
      20             25             30
Leu Glu Arg Cys Thr Asp Lys Leu Glu Arg Asp Arg Leu Ile Leu Phe
      35             40             45
Leu Asn Lys Leu Ile Leu Asn Lys Lys Asn Val Lys Asp Leu Met Asp
      50             55             60
Ser Asn Gly Ile Arg Ile Leu Val Asp Leu Leu Thr Leu Ala His Leu
      65             70             75             80
His Val Ser Arg Ala Thr Val Pro Leu Gln Ser Asn Val Ile Glu Ala
      85             90             95
Ala Pro Asp Met Lys Arg Glu Ser Glu Lys Glu Trp Tyr Phe Gly Asn
      100            105            110
Ala Asp Lys Glu Arg Ser Gly Pro Tyr Gly Phe His Glu Met Gln Glu
      115            120            125
Leu Trp Thr Lys Gly Met Leu Asn Ala Lys Thr Arg Cys Trp Ala Gln
      130            135            140
Gly Met Asp Gly Trp Arg Pro Leu Gln Ser Ile Pro Gln Leu Lys Trp
      145            150            155            160
Cys Leu Leu Ala Ser Gly Gln Ala Val Leu Asn Glu Thr Asp Leu Ala
      165            170            175
Thr Leu Ile Leu Asn Met Leu Ile Thr Met Cys Gly Tyr Phe Pro Ser
      180            185            190
Arg Asp Gln Asp Asn Ala Ile Ile Arg Pro Leu Pro Lys Val Lys Arg
      195            200            205
Leu Leu Ser Asp Ser Thr Cys Leu Pro His Ile Ile Gln Leu Leu Leu
      210            215            220
Thr Phe Asp Pro Thr Leu Val Glu Lys Val Ala Ile Leu Leu Tyr His
      225            230            235            240
Ile Met Gln Asp Asn Pro Gln Leu Pro Arg Leu Tyr Leu Ser Gly Val
      245            250            255

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Phe Phe Phe Ile Met Met Tyr Thr Gly Ser Asn Val Leu Pro Val Ala
 260 265 270
 Arg Phe Leu Lys Tyr Thr His Thr Lys Gln Ala Phe Lys Ser Glu Glu
 275 280 285
 Thr Lys Gly Gln Asp Ile Phe Gln Arg Ser Ile Leu Gly His Ile Leu
 290 295 300
 Pro Glu Ala Met Val Cys Tyr Leu Glu Asn Tyr Glu Pro Glu Lys Phe
 305 310 315 320
 Ser Glu Ile Phe Leu Gly Glu Phe Asp Thr Pro Glu Ala Ile Trp Ser
 325 330 335
 Ser Glu Met Arg Arg Leu Met Ile Glu Lys Ile Ala Ala His Leu Ala
 340 345 350
 Asp Phe Thr Pro Arg Leu Gln Ser Asn Thr Arg Ala Leu Tyr Gln Tyr
 355 360 365
 Cys Pro Ile Pro Ile Ile Asn Tyr Pro Gln Leu Glu Asn Glu Leu Phe
 370 375 380
 Cys Asn Ile Tyr Tyr Leu Lys Gln Leu Cys Asp Thr Leu Arg Phe Pro
 385 390 395 400
 Asn Trp Pro Ile Lys Asp Pro Val Lys Leu Leu Lys Asp Thr Leu Asp
 405 410 415
 Ala Trp Lys Lys Glu Val Glu Lys Lys Pro Pro Met Met Ser Ile Asp
 420 425 430
 Asp Ala Tyr Glu Val Leu Asn Leu Pro Gln Gly Gln Gly Pro His Asp
 435 440 445
 Glu Ser Lys Ile Arg Lys Ala Tyr Phe Arg Leu Ala Gln Lys Tyr His
 450 455 460
 Pro Asp Lys Asn Pro Glu Gly Arg Asp Met Phe Glu Lys Val Asn Lys
 465 470 475 480
 Ala Tyr Glu Phe Leu Cys Thr Lys Ser Ala Lys Ile Val Asp Gly Pro
 485 490 495
 Asp Pro Glu Asn Ile Ile Leu Ile Leu Lys Thr Gln Ser Ile Leu Phe
 500 505 510

 Asn Arg His Lys Glu Asp Leu Gln Pro Tyr Lys Tyr Ala Gly Tyr Pro
 515 520 525
 Met Leu Ile Arg Thr Ile Thr Met Glu Thr Ser Asp Asp Leu Leu Phe

530	535	540	
Ser Lys Glu Ser Pro Leu Leu Pro Ala Ala Thr Glu Leu Ala Phe His			
545	550	555	560
Thr Val Asn Cys Ser Ala Leu Asn Ala Glu Glu Leu Arg Arg Glu Asn			
	565	570	575
Gly Leu Glu Val Leu Gln Glu Ala Phe Ser Arg Cys Val Ala Val Leu			
	580	585	590
Thr Arg Ser Ser Lys Pro Ser Asp Met Ser Val Gln Val Cys Gly Tyr			
	595	600	605
Ile Ser Lys Cys Tyr Ser Val Ala Ala Gln Phe Glu Glu Cys Arg Glu			
610	615	620	
Lys Ile Thr Glu Met Pro Ser Ile Ile Lys Asp Leu Cys Arg Val Leu			
625	630	635	640
Tyr Phe Gly Lys Ser Ile Pro Arg Val Ala Ala Leu Gly Val Glu Cys			
	645	650	655
Val Ser Ser Phe Ala Val Asp Phe Trp Leu Gln Thr His Leu Phe Gln			
	660	665	670
Ala Gly Ile Leu Trp Tyr Leu Leu Gly Phe Leu Phe Asn Tyr Asp Tyr			
	675	680	685
Thr Leu Glu Glu Ser Gly Ile Gln Lys Ser Glu Glu Thr Asn Gln Gln			
690	695	700	
Glu Val Ala Asn Ser Leu Ala Lys Leu Ser Val His Ala Leu Ser Arg			
705	710	715	720
Leu Gly Gly Tyr Leu Ala Glu Glu Gln Ala Thr Pro Glu Asn Pro Thr			
	725	730	735
Ile Arg Lys Ser Leu Ala Gly Met Leu Thr Pro Tyr Val Ala Arg Lys			
	740	745	750
Leu Ala Val Ala Ser Val Thr Glu Ile Leu Lys Met Leu Asn Ser Asn			
	755	760	765
Thr Glu Ser Pro Tyr Leu Ile Trp Asn Asn Ser Thr Arg Ala Glu Leu			
770	775	780	
Leu Glu Phe Leu Glu Ser Gln Gln Glu Asn Met Ile Lys Lys Gly Asp			
785	790	795	800
Cys Asp Lys Thr Tyr Gly Ser Glu Phe Val Tyr Ser Asp His Ala Lys			
	805	810	815
Glu Leu Ile Val Gly Glu Ile Phe Val Arg Val Tyr Asn Glu Val Pro			

820	825	830
Thr Phe Gln Leu Glu Val Pro Lys Ala Phe Ala Ala Ser Leu Leu Asp		
835	840	845
Tyr Ile Gly Ser Gln Ala Gln Tyr Leu His Thr Phe Met Ala Ile Thr		
850	855	860
His Ala Ala Lys Val Glu Ser Glu Gln His Gly Asp Arg Leu Pro Arg		
865	870	875
Val Glu Met Ala Leu Glu Ala Leu Arg Asn Val Ile Lys Tyr Asn Pro		
885	890	895
Gly Ser Glu Ser Glu Cys Ile Gly His Phe Lys Leu Ile Phe Ser Leu		
900	905	910
Leu Arg Val His Gly Ala Gly Gln Val Gln Gln Leu Ala Leu Glu Val		
915	920	925
Val Asn Ile Val Thr Ser Asn Gln Asp Cys Val Asn Asn Ile Ala Glu		
930	935	940
Ser Met Val Leu Ser Ser Leu Leu Ala Leu Leu His Ser Leu Pro Ser		
945	950	955
Ser Arg Gln Leu Val Leu Glu Thr Leu Tyr Ala Leu Thr Ser Ser Thr		
965	970	975
Lys Ile Ile Lys Glu Ala Met Ala Lys Gly Ala Leu Ile Tyr Leu Leu		
980	985	990
Asp Met Phe Cys Asn Ser Thr His Pro Gln Val Arg Ala Gln Thr Ala		
995	1000	1005
Glu Leu Phe Ala Lys Met Thr Ala Asp Lys Leu Ile Gly Pro Lys Val		
1010	1015	1020
Arg Ile Thr Leu Met Lys Phe Leu Pro Ser Val Phe Met Asp Ala Met		
1025	1030	1035
Arg Asp Asn Pro Glu Ala Ala Val His Ile Phe Glu Gly Thr His Glu		
1045	1050	1055
Asn Pro Glu Leu Ile Trp Asn Asp Asn Ser Arg Asp Lys Val Ser Thr		
1060	1065	1070
Thr Val Arg Glu Met Met Leu Glu His Phe Lys Asn Gln Gln Asp Asn		
1075	1080	1085
Pro Glu Ala Asn Trp Lys Leu Pro Glu Asp Phe Ala Val Val Phe Gly		
1090	1095	1100
Glu Ala Glu Gly Glu Leu Ala Val Gly Gly Val Phe Leu Arg Ile Phe		

1105	1110	1115	1120
Ile Ala Gln Pro Ala Trp Val Leu Arg Lys Pro Arg Glu Phe Leu Ile			
1125	1130	1135	
Ala Leu Leu Glu Lys Leu Thr Glu Leu Leu Glu Lys Asn Asn Pro His			
1140	1145	1150	
Gly Glu Thr Leu Glu Thr Leu Thr Met Ala Thr Val Cys Leu Phe Ser			
1155	1160	1165	
Ala Gln Pro Gln Leu Ala Asp Gln Val Pro Pro Leu Gly His Leu Pro			
1170	1175	1180	
Lys Val Ile Gln Ala Met Asn His Arg Asn Asn Ala Ile Pro Lys Ser			
1185	1190	1195	1200
Ala Ile Arg Val Ile His Ala Leu Ser Glu Asn Glu Leu Cys Val Arg			
1205	1210	1215	
Ala Met Ala Ser Leu Glu Thr Ile Gly Pro Leu Met Asn Gly Met Lys			
1220	1225	1230	
Lys Arg Ala Asp Thr Val Gly Leu Ala Cys Glu Ala Ile Asn Arg Met			
1235	1240	1245	
Phe Gln Lys Glu Gln Ser Glu Leu Val Ala Gln Ala Leu Lys Ala Asp			
1250	1255	1260	
Leu Val Pro Tyr Leu Leu Lys Leu Leu Glu Gly Ile Gly Leu Glu Asn			
1265	1270	1275	1280
Leu Asp Ser Pro Ala Ala Thr Lys Ala Gln Ile Val Lys Ala Leu Lys			
1285	1290	1295	
Ala Met Thr Arg Ser Leu Gln Tyr Gly Glu Gln Val Asn Glu Ile Leu			
1300	1305	1310	
Cys Arg Ser Ser Val Trp Ser Ala Phe Lys Asp Gln Lys His Asp Leu			
1315	1320	1325	
Phe Ile Ser Glu Ser Gln Thr Ala Gly Tyr Leu Thr Gly Pro Gly Val			
1330	1335	1340	
Ala Gly Tyr Leu Thr Ala Gly Thr Ser Thr Ser Val Met Ser Asn Leu			
1345	1350	1355	1360
Pro Pro Pro Val Asp His Glu Ala Gly Asp Leu Gly Tyr Gln Thr			
1365	1370	1375	

<211> 1745

<212> PRT

<213> Homo sapiens

<400> 3208

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Met Lys Leu Asn Pro Gln Gln Ala Pro Leu Tyr Gly Asp Cys Val Val
  1             5             10             15
Thr Val Leu Leu Ala Glu Glu Asp Lys Ala Glu Asp Asp Val Val Phe
      20             25             30
Tyr Leu Val Phe Leu Gly Ser Thr Leu Arg His Cys Thr Ser Thr Arg
      35             40             45
Lys Val Ser Ser Asp Thr Leu Glu Thr Ile Ala Pro Gly His Asp Cys
      50             55             60
Cys Glu Thr Val Lys Val Gln Leu Cys Ala Ser Lys Glu Gly Leu Pro
      65             70             75             80
Val Phe Val Val Ala Glu Glu Asp Phe His Phe Val Gln Asp Glu Ala
      85             90             95
Tyr Asp Ala Ala Gln Phe Leu Ala Thr Ser Ala Gly Asn Gln Gln Ala
      100            105            110
Leu Asn Phe Thr Arg Phe Leu Asp Gln Ser Gly Pro Pro Ser Gly Asp
      115            120            125
Val Asn Ser Leu Asp Lys Lys Leu Val Leu Ala Phe Arg His Leu Lys
      130            135            140
Leu Pro Thr Glu Trp Asn Val Leu Gly Thr Asp Gln Ser Leu His Asp
      145            150            155            160
Ala Gly Pro Arg Glu Thr Leu Met His Phe Ala Val Arg Leu Gly Leu
      165            170            175
Leu Arg Leu Thr Trp Phe Leu Ser Gln Lys Pro Gly Gly Arg Gly Ala
      180            185            190
Leu Ser Ile His Asn Gln Glu Gly Ala Thr Pro Val Ser Leu Ala Leu
      195            200            205
Glu Arg Gly Tyr His Lys Leu His Gln Leu Leu Thr Glu Glu Asn Ala
      210            215            220
Gly Glu Pro Asp Ser Trp Ser Ser Leu Ser Tyr Glu Ile Pro Tyr Gly
      225            230            235            240
Asp Cys Ser Val Arg His His Arg Glu Leu Asp Ile Tyr Thr Leu Thr

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	245	250	255
Ser Glu Ser Asp Ser His His Glu His Pro Phe Pro Gly Asp Gly Cys			
	260	265	270
Thr Gly Pro Ile Phe Lys Leu Met Asn Ile Gln Gln Gln Leu Met Lys			
	275	280	285
Thr Asn Leu Lys Gln Met Asp Ser Leu Met Pro Leu Met Met Thr Ala			
	290	295	300
Gln Asp Pro Ser Ser Ala Pro Glu Thr Asp Gly Gln Phe Leu Pro Cys			
305	310	315	320
Ala Pro Glu Pro Thr Asp Pro Gln Arg Leu Ser Ser Ser Glu Glu Thr			
	325	330	335
Glu Ser Thr Gln Cys Cys Pro Gly Ser Pro Val Ala Gln Thr Glu Ser			
	340	345	350
Pro Cys Asp Leu Ser Ser Ile Val Glu Glu Glu Asn Thr Asp Arg Ser			
	355	360	365
Cys Arg Lys Lys Asn Lys Gly Val Glu Arg Lys Gly Glu Glu Val Glu			
	370	375	380
Pro Ala Pro Ile Val Asp Ser Gly Thr Val Ser Asp Gln Asp Ser Cys			
385	390	395	400
Leu Gln Ser Leu Pro Asp Cys Gly Val Lys Gly Thr Glu Gly Leu Ser			
	405	410	415
Ser Cys Gly Asn Arg Asn Glu Glu Thr Gly Thr Lys Ser Ser Gly Met			
	420	425	430
Pro Thr Asp Gln Glu Ser Leu Ser Ser Gly Asp Ala Val Leu Gln Arg			
	435	440	445
Asp Leu Val Thr Glu Pro Gly Thr Ala Gln Tyr Ser Ser Gly Gly Glu			
	450	455	460
Leu Gly Gly Ile Ser Thr Thr Asn Val Ser Thr Pro Asp Thr Ala Gly			
465	470	475	480
Glu Met Glu His Gly Leu Met Asn Pro Asp Ala Thr Val Arg Lys Asn			
	485	490	495
Val Leu Gln Gly Gly Glu Ser Thr Lys Glu Arg Phe Glu Asn Ser Asn			
	500	505	510
Ile Gly Thr Ala Gly Ala Ser Asp Val His Val Thr Ser Lys Pro Val			
	515	520	525
Asp Lys Ile Ser Val Pro Asn Cys Ala Pro Ala Ala Ser Ser Leu Asp			

530	535	540	
Gly Asn Lys Pro Ala Glu Ser Ser Leu Ala Phe Ser Asn Glu Glu Thr			
545	550	555	560
Ser Thr Glu Lys Thr Ala Glu Thr Glu Thr Ser Arg Ser Cys Glu Glu			
565	570	575	
Ser Ala Asp Ala Pro Val Asp Gln Asn Ser Val Val Ile Pro Ala Ala			
580	585	590	
Ala Lys Asp Lys Ile Ser Asp Gly Leu Glu Pro Tyr Thr Leu Leu Ala			
595	600	605	
Ala Gly Ile Gly Glu Ala Met Ser Pro Ser Asp Leu Ala Leu Leu Val			
610	615	620	
Leu Glu Glu Asp Val Met Pro His Gln Asn Ser Glu Thr Asn Ser Ser			
625	630	635	640
His Ala Gln Ser Gln Lys Gly Lys Ser Ser Pro Ile Cys Ser Thr Thr			
645	650	655	
Gly Asp Asp Lys Leu Cys Ala Asp Ser Ala Cys Gln Gln Asn Thr Val			
660	665	670	
Thr Ser Ser Gly Asp Leu Val Ala Lys Leu Cys Asp Asn Ile Val Ser			
675	680	685	
Glu Ser Glu Ser Thr Thr Ala Arg Gln Pro Ser Ser Gln Asp Pro Pro			
690	695	700	
Asp Ala Ser His Cys Glu Asp Pro Gln Ala His Thr Val Thr Ser Asp			
705	710	715	720
Pro Val Arg Asp Thr Gln Glu Arg Ala Asp Phe Cys Pro Phe Lys Val			
725	730	735	
Val Asp Asn Lys Gly Gln Arg Lys Asp Val Lys Leu Asp Lys Pro Leu			
740	745	750	
Thr Asn Met Leu Glu Val Val Ser His Pro His Pro Val Val Pro Lys			
755	760	765	
Met Glu Lys Glu Leu Val Pro Asp Gln Ala Val Ile Ser Asp Ser Thr			
770	775	780	
Phe Ser Leu Ala Asn Ser Pro Gly Ser Glu Ser Val Thr Lys Asp Asp			
785	790	795	800
Ala Leu Ser Phe Val Pro Ser Gln Lys Glu Lys Gly Thr Ala Thr Pro			
805	810	815	
Glu Leu His Thr Ala Thr Asp Tyr Arg Asp Gly Pro Asp Gly Asn Ser			

820	825	830
Asn Glu Pro Asp Thr Arg Pro Leu Glu Asp Arg Ala Ala Gly Leu Ser		
835	840	845
Thr Ser Ser Thr Ala Ala Glu Leu Gln His Gly Met Gly Asn Thr Ser		
850	855	860
Leu Thr Gly Leu Gly Gly Glu His Glu Gly Pro Ala Pro Pro Ala Ile		
865	870	875
Pro Glu Ala Leu Asn Ile Lys Gly Asn Thr Asp Ser Ser Leu Gln Ser		
885	890	895
Met Gly Lys Ala Thr Leu Ala Leu Asp Ser Val Leu Thr Glu Glu Gly		
900	905	910
Lys Leu Leu Val Val Ser Glu Ser Ser Ala Ala Gln Glu Gln Asp Lys		
915	920	925
Asp Lys Ala Val Thr Cys Ser Ser Ile Lys Glu Asn Ala Leu Ser Ser		
930	935	940
Gly Thr Leu Gln Glu Glu Gln Arg Thr Pro Pro Pro Gly Gln Asp Thr		
945	950	955
Gln Gln Phe His Glu Lys Ser Ile Ser Ala Asp Cys Ala Lys Asp Lys		
965	970	975
Ala Leu Gln Leu Ser Asn Ser Pro Gly Ala Ser Ser Ala Phe Leu Lys		
980	985	990
Ala Glu Thr Glu His Asn Lys Glu Val Ala Pro Gln Val Ser Leu Leu		
995	1000	1005
Thr Gln Gly Gly Ala Ala Gln Ser Leu Val Pro Pro Gly Ala Ser Leu		
1010	1015	1020
Ala Thr Glu Ser Arg Gln Glu Ala Leu Gly Ala Glu His Asn Ser Ser		
1025	1030	1035
Ala Leu Leu Pro Cys Leu Leu Pro Asp Gly Ser Asp Gly Ser Asp Ala		
1045	1050	1055
Leu Asn Cys Ser Gln Ala Ser Pro Leu Asp Val Gly Val Lys Asn Thr		
1060	1065	1070
Gln Ser Gln Gly Lys Thr Ser Ala Cys Glu Val Ser Gly Asn Val Thr		
1075	1080	1085
Val Asp Val Thr Gly Val Asn Ala Leu Gln Gly Met Ala Glu Pro Arg		
1090	1095	1100
Arg Glu Asn Ile Ser His Asn Thr Gln Asp Ile Leu Ile Pro Asn Val		

1105	1110	1115	1120
Leu Leu Ser Gln Glu Lys Asn Ala Val Leu Gly Leu Pro Val Ala Leu			
1125	1130	1135	
Gln Asp Lys Ala Val Thr Asp Pro Gln Gly Val Gly Thr Pro Glu Met			
1140	1145	1150	
Ile Pro Leu Asp Trp Glu Lys Gly Lys Leu Glu Gly Ala Asp His Ser			
1155	1160	1165	
Cys Thr Met Gly Asp Ala Glu Glu Ala Gln Ile Asp Asp Glu Ala His			
1170	1175	1180	
Pro Val Leu Leu Gln Pro Val Ala Lys Glu Leu Pro Thr Asp Met Glu			
1185	1190	1195	1200
Leu Ser Ala His Asp Asp Gly Ala Pro Ala Gly Val Arg Glu Val Thr			
1205	1210	1215	
Arg Ala Pro Pro Ser Gly Arg Glu Arg Ser Thr Pro Ser Leu Pro Cys			
1220	1225	1230	
Met Val Ser Ala Gln Asp Ala Pro Leu Pro Lys Gly Ala Asp Leu Ile			
1235	1240	1245	
Glu Glu Ala Ala Ser Arg Ile Val Asp Ala Val Ile Glu Gln Val Lys			
1250	1255	1260	
Ala Ala Gly Ala Leu Leu Thr Glu Gly Glu Ala Cys His Met Ser Leu			
1265	1270	1275	1280
Ser Ser Pro Glu Leu Gly Pro Leu Thr Lys Gly Leu Glu Ser Ala Phe			
1285	1290	1295	
Thr Glu Lys Val Ser Thr Phe Pro Pro Gly Glu Ser Leu Pro Met Gly			
1300	1305	1310	
Ser Thr Pro Glu Glu Ala Thr Gly Ser Leu Ala Gly Cys Phe Ala Gly			
1315	1320	1325	
Arg Glu Glu Pro Glu Lys Ile Ile Leu Pro Val Gln Gly Pro Glu Pro			
1330	1335	1340	
Ala Ala Glu Met Pro Asp Val Lys Ala Glu Asp Glu Val Asp Phe Arg			
1345	1350	1355	1360
Ala Ser Ser Ile Ser Glu Glu Val Ala Val Gly Ser Ile Ala Ala Thr			
1365	1370	1375	
Leu Lys Met Lys Gln Gly Pro Met Thr Gln Ala Ile Asn Arg Glu Asn			
1380	1385	1390	

Trp Cys Thr Ile Glu Pro Cys Pro Asp Ala Ala Ser Leu Leu Ala Ser
 1395 1400 1405
 Lys Gln Ser Pro Glu Cys Glu Asn Phe Leu Asp Val Gly Leu Gly Arg
 1410 1415 1420
 Glu Cys Thr Ser Lys Gln Gly Val Leu Lys Arg Glu Ser Gly Ser Asp
 1425 1430 1435 1440
 Ser Asp Leu Phe His Ser Pro Ser Asp Asp Met Asp Ser Ile Ile Phe
 1445 1450 1455
 Pro Lys Pro Glu Glu Glu His Leu Ala Cys Asp Ile Thr Gly Ser Ser
 1460 1465 1470
 Ser Ser Thr Asp Asp Thr Ala Ser Leu Asp Arg His Ser Ser His Gly
 1475 1480 1485
 Ser Asp Val Ser Leu Ser Gln Ile Leu Lys Pro Asn Arg Ser Gly Asp
 1490 1495 1500
 Arg Gln Ser Leu Asp Gly Phe Tyr Ser His Gly Met Gly Ala Glu Gly
 1505 1510 1515 1520
 Arg Glu Ser Glu Ser Glu Pro Ala Asp Pro Gly Asp Val Glu Glu Glu
 1525 1530 1535
 Glu Met Asp Ser Ile Thr Glu Val Pro Ala Asn Cys Ser Val Leu Arg
 1540 1545 1550
 Ser Ser Met Arg Ser Leu Ser Pro Phe Arg Arg His Ser Trp Gly Pro
 1555 1560 1565
 Gly Lys Asn Ala Ala Ser Asp Ala Glu Met Asn His Arg Ser Phe Ser
 1570 1575 1580
 Leu Glu Gly Leu Thr Gly Gly Ala Gly Val Gly Asn Lys Pro Ser Ser
 1585 1590 1595 1600
 Ser Leu Glu Val Ser Ser Ala Asn Ala Glu Glu Leu Arg His Pro Phe
 1605 1610 1615
 Ser Gly Glu Glu Arg Val Asp Ser Leu Val Ser Leu Ser Glu Glu Asp
 1620 1625 1630
 Leu Glu Ser Asp Gln Arg Glu His Arg Met Phe Asp Gln Gln Ile Cys
 1635 1640 1645
 His Arg Ser Lys Gln Gln Gly Phe Asn Tyr Cys Thr Ser Ala Ile Ser
 1650 1655 1660
 Ser Pro Leu Thr Lys Ser Ile Ser Leu Met Thr Ile Ser His Pro Gly
 1665 1670 1675 1680

Leu Asp Asn Ser Arg Pro Phe His Ser Thr Phe His Asn Thr Ser Ala
 1685 1690 1695
 Asn Leu Thr Glu Ser Ile Thr Glu Glu Asn Tyr Asn Phe Leu Pro His
 1700 1705 1710
 Ser Pro Ser Lys Lys Asp Ser Glu Trp Lys Ser Gly Thr Lys Val Ser
 1715 1720 1725
 Arg Thr Phe Ser Tyr Ile Lys Asn Lys Met Ser Ser Ser Lys Lys Ser
 1730 1735 1740
 Lys
 1745

<210> 3209

<211> 586

<212> PRT

<213> Homo sapiens

<400> 3209

Met Lys Tyr Ile Leu Val Thr Gly Gly Val Ile Ser Gly Ile Gly Lys
 1 5 10 15
 Gly Ile Ile Ala Ser Ser Ile Gly Thr Ile Leu Lys Ser Cys Gly Leu
 20 25 30
 Arg Val Thr Ala Ile Lys Ile Asp Pro Tyr Ile Asn Ile Asp Ala Gly
 35 40 45
 Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val Leu Asn Asp Gly
 50 55 60
 Gly Glu Val Asp Leu Asp Leu Gly Asn Tyr Glu Arg Phe Leu Asp Ile
 65 70 75 80
 Asn Leu Tyr Lys Asp Asn Asn Ile Thr Thr Gly Lys Ile Tyr Gln His
 85 90 95
 Val Ile Asn Lys Glu Arg Arg Gly Asp Tyr Leu Gly Lys Thr Val Gln
 100 105 110
 Val Val Pro His Ile Thr Asp Ala Val Gln Glu Trp Val Met Asn Gln
 115 120 125
 Ala Lys Val Pro Val Asp Gly Asn Lys Glu Glu Pro Gln Ile Cys Val
 130 135 140

Ile Glu Leu Gly Gly Thr Ile Gly Asp Ile Glu Gly Met Pro Phe Val
 145 150 155 160
 Glu Ala Phe Arg Gln Phe Gln Phe Lys Ala Lys Arg Glu Asn Phe Cys
 165 170 175
 Asn Ile His Val Ser Leu Val Pro Gln Leu Ser Ala Thr Gly Glu Gln
 180 185 190
 Lys Thr Lys Pro Thr Gln Asn Ser Val Arg Ala Leu Arg Gly Leu Gly
 195 200 205
 Leu Ser Pro Asp Leu Ile Val Cys Arg Ser Ser Thr Pro Ile Glu Met
 210 215 220
 Ala Val Lys Glu Lys Ile Ser Met Phe Cys His Val Asn Pro Glu Gln
 225 230 235 240
 Val Ile Cys Ile His Asp Val Ser Ser Thr Tyr Arg Val Pro Val Leu
 245 250 255
 Leu Glu Glu Gln Ser Ile Val Lys Tyr Phe Lys Glu Arg Leu His Leu
 260 265 270
 Pro Ile Gly Asp Ser Ala Ser Asn Leu Leu Phe Lys Trp Arg Asn Met
 275 280 285
 Ala Asp Arg Tyr Glu Arg Leu Gln Lys Ile Cys Ser Ile Ala Leu Val
 290 295 300

 Gly Lys Tyr Thr Lys Leu Arg Asp Cys Tyr Ala Ser Val Phe Lys Ala
 305 310 315 320
 Leu Glu His Ser Ala Leu Ala Ile Asn His Lys Leu Asn Leu Met Tyr
 325 330 335
 Ile Asp Ser Ile Asp Leu Glu Lys Ile Thr Glu Thr Glu Asp Pro Val
 340 345 350
 Lys Phe His Glu Ala Trp Gln Lys Leu Cys Lys Ala Asp Gly Ile Leu
 355 360 365
 Val Pro Gly Gly Phe Gly Ile Arg Gly Thr Leu Gly Lys Leu Gln Ala
 370 375 380
 Ile Ser Trp Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu
 385 390 395 400
 Gly Met Gln Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu
 405 410 415
 Lys Asp Ala Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu

420 425 430
 Val Ile Asp Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met
 435 440 445
 Arg Leu Gly Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu
 450 455 460
 Arg Lys Leu Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His
 465 470 475 480
 Arg Phe Glu Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp
 485 490 495
 Leu Ser Phe Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile
 500 505 510
 Glu Leu Ala Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu
 515 520 525
 Phe Ser Ser Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu
 530 535 540
 Leu Ala Ala Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys
 545 550 555 560
 Leu Ser Ser Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser
 565 570 575
 Glu Pro Arg Ile Ala Glu Leu Glu Ile Ser
 580 585

<210> 3210

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3210

Met Ala Arg Val His Ile Trp Pro Gln His Thr Ala Val Asn Pro Arg
 1 5 10 15
 Leu Leu Glu Asn Gln Ala Arg Ala Met Ile His His His Leu Met Ala
 20 25 30
 Ala Thr Pro Ala Val Phe Leu Val Ser Ser Gly Pro Asp Gly Ser Gln
 35 40 45
 Ala Lys Ala Ala Ala Ala Ser Tyr Leu Ala Glu Pro Pro Gly Ser Pro

50 55 60
 Thr Pro Gly Pro Phe Ser Tyr Thr Lys Ala Ser Val Val Leu Phe Leu
 65 70 75 80
 Pro Asn Pro Arg Pro Asn Ile Phe Lys Leu His Ser Lys Glu Gln Leu
 85 90 95
 Ala Glu Cys His Gln Tyr Leu Gln Ser Asn Met Arg Trp Asp Phe Ser
 100 105 110
 Phe Ala Ile Lys Thr Arg Met Leu Phe Leu Pro Cys Ser Asp Asn Val
 115 120 125

<210> 3211

<211> 757

<212> PRT

<213> Homo sapiens

<400> 3211

Met Gln Lys Ser Leu Arg Pro Ile Gly Leu Leu Arg Ala Gln Ser Leu
 1 5 10 15
 Glu Trp Phe Tyr Asn Asn Val Lys Ser Arg Phe Glu Arg Phe Gly Ser
 20 25 30
 Ala Lys Val Leu Lys Asn Leu Tyr Arg Lys His Arg Leu Glu Ser Gly
 35 40 45
 Ala Cys Phe Asp Ile Leu Gly Gly Ser Leu Phe Glu Ser Asn Leu Glu
 50 55 60
 Asn Glu Gly Ser Ile Ser Gly Ser Asp Ser Thr Phe Tyr Arg Gln Ser
 65 70 75 80
 Glu Gly His Ser Val Met Asp Thr Leu Ala Val Ala Leu Arg Val Ala
 85 90 95
 Glu Glu Ala Ile Glu Glu Ala Ile Ser Lys Ala Glu Ala Tyr Gly Asp
 100 105 110
 Ser Leu Asp Lys Gln Asn Glu Ala Ser Tyr Leu Arg Asp His Lys Glu
 115 120 125
 Glu Leu Thr Glu Glu Leu Ala Thr Thr Ile Leu Gln Lys Ile Ile Arg
 130 135 140
 Lys Gln Lys Ser Lys Ser Glu Gln Gln Val Glu Glu Glu Pro Gly Trp

145 150 155 160
 Pro His Pro Gln Ser Cys Ser Thr Lys Val Ala Asp Glu Gly Thr Ser
 165 170 175
 Ala Ser Pro Gly Gly Tyr Arg Ala Pro Ala Ala Leu Trp Arg Ser Gln
 180 185 190
 Ser Ala Phe Ser Ile Thr Gly Glu Glu Ala Leu Lys Thr Pro Pro Val
 195 200 205
 Glu Ala Pro Ser Arg Gln Pro Arg Asp Gln Gly Gln His Pro Arg Ala
 210 215 220
 Glu Ser Ala Leu Pro Ser Trp Lys Ser Val Asp Arg Leu Asp Glu Thr
 225 230 235 240
 Asn Leu Ala Pro Val Leu Gln Ser Pro Asp Gly Asn Trp Val Ala Leu
 245 250 255
 Lys Asp Gly Ala Pro Pro Pro Thr Arg Leu Leu Ala Lys Pro Lys Ser
 260 265 270
 Gly Thr Phe Gln Ala Leu Glu Val Ala Ser Ser Val Ala Ser Ala Tyr
 275 280 285
 Asp Glu Met Gly Ser Asp Ser Glu Glu Asp Phe Asp Trp Ser Glu Ala
 290 295 300
 Leu Ser Lys Leu Cys Pro Arg Ser Arg Ala Leu Pro Arg Asn Pro Gln
 305 310 315 320
 Pro Gln Pro Thr Gln Ala Gln Ser Ser Asp Gln Gly Pro Ile Ala Ala
 325 330 335
 Ser Pro Ser Ser Ala Leu Ser Pro Asn Pro Glu Ala Met Cys Ser Asp
 340 345 350
 Ser Glu Thr Ser Ser Ala Gly Ser Ser Arg Glu Val Gly His Gln Ala
 355 360 365
 Arg Leu Ser Trp Leu Gln Arg Lys Ala Pro Arg Asn Pro Ala Ala Glu
 370 375 380
 Lys Met Arg Leu His Gly Glu Leu Asp Val Asn Phe Asn Pro Gln Leu
 385 390 395 400
 Ala Ser Arg Glu Thr Ser Asp Ser Ser Glu Pro Glu Glu Ala Pro His
 405 410 415
 Thr Thr Asp Arg Arg Ala Arg Arg Trp Arg Arg Ala Arg Leu Gly Ser
 420 425 430
 Glu Glu Pro Ser Lys Glu Pro Ser Ser Pro Ser Ala Gln Leu Arg Asp

435	440	445
Leu Asp Thr His Gln Val Ser Asp Asp Leu Ser Glu Thr Asp Ile Ser		
450	455	460
Asn Glu Ala Arg Asp Pro Gln Thr Leu Thr Asp Thr Thr Glu Glu Lys		
465	470	475
Arg Arg Asn Arg Leu Tyr Glu Leu Ala Met Lys Met Ser Glu Lys Glu		
485	490	495
Thr Ser Ser Gly Glu Asp Gln Glu Ser Glu Pro Lys Thr Glu Ser Glu		
500	505	510
Asn Gln Lys Glu Ser Leu Ser Ser Glu Asp Asn Ser Gln Ser Val Gln		
515	520	525
Glu Glu Leu Lys Lys Lys Phe Ser Ala Val Ser Leu Cys Asn Ile Ser		
530	535	540
Thr Glu Val Leu Lys Val Ile Asn Ala Thr Glu Glu Leu Ile Ala Gly		
545	550	555
Ser Thr Gly Pro Trp Glu Ser Pro Gln Val Pro Pro Asp Arg Gln Lys		
565	570	575
Gly Met Phe Pro Arg Gly Thr Asp Gln Val Arg Leu Asp Glu Gln Leu		
580	585	590
Thr Ser Leu Glu Glu Asn Val Tyr Leu Ala Ala Gly Thr Val Tyr Gly		
595	600	605
Leu Glu Thr Gln Leu Thr Glu Leu Glu Asp Ala Ala Arg Cys Ile His		
610	615	620
Ser Gly Thr Asp Glu Thr His Leu Ala Asp Leu Glu Asp Gln Val Ala		
625	630	635
Thr Ala Ala Ala Gln Val His His Ala Glu Leu Gln Ile Ser Asp Ile		
645	650	655
Glu Ser Arg Ile Ser Ala Leu Thr Ile Ala Gly Leu Asn Ile Ala Pro		
660	665	670
Cys Val Arg Phe Thr Arg Arg Arg Asp Gln Lys Gln Arg Thr Gln Val		
675	680	685
Gln Thr Ile Asp Thr Ser Arg Gln Gln Arg Arg Lys Leu Pro Ala Pro		
690	695	700
Pro Val Lys Ala Glu Lys Ile Glu Thr Ser Ser Val Thr Thr Ile Lys		
705	710	715
Thr Phe Asn His Asn Phe Ile Leu Gln Gly Ser Ser Thr Asn Arg Thr		

725 730 735
 Lys Glu Arg Lys Gly Thr Thr Lys Asp Leu Met Glu Pro Ala Leu Glu
 740 745 750
 Ser Ala Val Met Tyr
 755

<210> 3212

<211> 714

<212> PRT

<213> Homo sapiens

<400> 3212

Met Leu His Leu Lys Val Gln Phe Leu Asp Asp Ser Gln Lys Ile Phe
 1 5 10 15
 Val Val Asp Gln Lys Ser Ser Gly Lys Ala Leu Phe Asn Leu Ser Cys
 20 25 30
 Ser His Leu Asn Leu Ala Glu Lys Glu Tyr Phe Gly Leu Glu Phe Cys
 35 40 45
 Ser His Ser Gly Asn Asn Val Trp Leu Glu Leu Leu Lys Pro Ile Thr
 50 55 60
 Lys Gln Val Lys Asn Pro Lys Glu Ile Val Phe Lys Phe Met Val Lys
 65 70 75 80
 Phe Phe Pro Val Asp Pro Gly His Leu Arg Glu Glu Leu Thr Arg Tyr
 85 90 95
 Leu Phe Thr Leu Gln Ile Lys Lys Asp Leu Ala Leu Gly Arg Leu Pro
 100 105 110
 Cys Ser Asp Asn Cys Thr Ala Leu Met Val Ser His Ile Leu Gln Ser
 115 120 125
 Glu Leu Gly Asp Phe His Glu Glu Thr Asp Arg Lys His Leu Ala Gln
 130 135 140
 Thr Arg Tyr Leu Pro Asn Gln Asp Cys Leu Glu Gly Lys Ile Met His
 145 150 155 160
 Phe His Gln Lys His Ile Gly Arg Ser Pro Ala Glu Ser Asp Ile Leu
 165 170 175
 Leu Leu Asp Ile Ala Arg Lys Leu Asp Met Tyr Gly Ile Arg Pro His

180	185	190
Pro Ala Ser Asp Gly Glu Gly Met Gln Ile His Leu Ala Val Ala His		
195	200	205
Met Gly Val Leu Val Leu Arg Gly Asn Thr Lys Ile Asn Thr Phe Asn		
210	215	220
Trp Ala Lys Ile Arg Lys Leu Ser Phe Lys Arg Lys His Phe Leu Ile		
225	230	235
Lys Leu His Ala Asn Ile Leu Val Leu Cys Lys Asp Thr Leu Glu Phe		
245	250	255
Thr Met Ala Ser Arg Asp Ala Cys Lys Ala Phe Trp Lys Thr Cys Val		
260	265	270
Glu Tyr His Ala Phe Phe Arg Leu Ser Glu Glu Pro Lys Ser Lys Pro		
275	280	285
Lys Thr Leu Leu Cys Ser Lys Gly Ser Ser Phe Arg Tyr Ser Gly Arg		
290	295	300
Thr Gln Arg Gln Leu Leu Glu Tyr Gly Arg Lys Gly Arg Leu Lys Ser		
305	310	315
Leu Pro Phe Glu Arg Lys His Tyr Pro Ser Gln Tyr His Glu Arg Gln		
325	330	335
Cys Arg Ser Ser Pro Asp Leu Leu Ser Asp Val Ser Lys Gln Val Glu		
340	345	350
Asp Leu Arg Leu Ala Tyr Gly Gly Gly Tyr Tyr Gln Asn Val Asn Gly		
355	360	365
Val His Ala Ser Glu Pro Val Leu Glu Ser Arg Arg Arg Asn Ser Ala		
370	375	380
Leu Glu Val Thr Phe Ala Thr Glu Leu Glu His Ser Lys Pro Glu Ala		
385	390	395
Asp Pro Thr Leu Leu His Gln Ser Gln Ser Ser Ser Ser Phe Pro Phe		
405	410	415
Ile Tyr Met Asp Pro Val Phe Asn Thr Glu Pro Asn Pro Asn Pro Asp		
420	425	430
Pro Arg Asp Ile Phe Ser Glu Arg Ser Ser Leu Ser Ser Phe Gln Thr		
435	440	445
Ser Cys Lys Phe Ser Gly Asn His Met Ser Ile Tyr Ser Gly Leu Thr		
450	455	460

[illegible]

<210> 3213

<211> 393

<212> PRT

<213> Homo sapiens

<400> 3213

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Met Glu Gln Cys Ala Cys Val Glu Arg Glu Leu Asp Lys Val Leu Gln
  1             5             10             15
Lys Phe Leu Thr Tyr Gly Gln His Cys Glu Arg Ser Leu Glu Glu Leu
      20             25             30
Leu His Tyr Val Gly Gln Leu Arg Ala Glu Leu Ala Ser Ala Ala Leu
      35             40             45
Gln Gly Thr Pro Leu Ser Ala Thr Leu Ser Leu Val Met Ser Gln Cys
      50             55             60
Cys Arg Lys Ile Lys Asp Thr Val Gln Lys Leu Ala Ser Asp His Lys
      65             70             75             80
Asp Ile His Ser Ser Val Ser Arg Val Gly Lys Ala Ile Asp Arg Asn
      85             90             95
Phe Asp Ser Glu Ile Cys Gly Val Val Ser Asp Ala Val Trp Asp Ala
      100            105            110
Arg Glu Gln Gln Gln Gln Ile Leu Gln Met Ala Ile Val Glu His Leu
      115            120            125
Tyr Gln Gln Gly Met Leu Ser Val Ala Glu Glu Leu Cys Gln Glu Ser
      130            135            140
Thr Leu Asn Val Asp Leu Asp Phe Lys Gln Pro Phe Leu Glu Leu Asn
      145            150            155            160
Arg Ile Leu Glu Ala Leu His Glu Gln Asp Leu Gly Pro Ala Leu Glu
      165            170            175
Trp Ala Val Ser His Arg Gln Arg Leu Leu Glu Leu Asn Ser Ser Leu
      180            185            190
Glu Phe Lys Leu His Arg Leu His Phe Ile Arg Leu Leu Ala Gly Gly
      195            200            205
Pro Ala Lys Gln Leu Glu Ala Leu Ser Tyr Ala Arg His Phe Gln Pro
      210            215            220
Phe Ala Arg Leu His Gln Arg Glu Ile Gln Val Met Met Gly Ser Leu
      225            230            235            240
Val Tyr Leu Arg Leu Gly Leu Glu Lys Ser Pro Tyr Cys His Leu Leu
      245            250            255

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Asp Ser Ser His Trp Ala Glu Ile Cys Glu Thr Phe Thr Arg Asp Ala
 260 265 270
 Cys Ser Leu Leu Gly Leu Ser Val Glu Ser Pro Leu Ser Val Ser Phe
 275 280 285
 Ala Ser Gly Cys Val Ala Leu Pro Val Leu Met Asn Ile Lys Ala Val
 290 295 300
 Ile Glu Gln Arg Gln Cys Thr Gly Val Trp Asn His Lys Asp Glu Leu
 305 310 315 320
 Pro Ile Glu Ile Glu Leu Gly Met Lys Cys Trp Tyr His Ser Val Phe
 325 330 335
 Ala Cys Pro Ile Leu Arg Gln Gln Thr Ser Asp Ser Asn Pro Pro Ile
 340 345 350
 Lys Leu Ile Cys Gly His Val Ile Ser Arg Asp Ala Leu Asn Lys Leu
 355 360 365
 Ile Asn Gly Gly Lys Leu Lys Cys Pro Tyr Cys Pro Met Glu Gln Asn
 370 375 380
 Pro Ala Asp Gly Lys Arg Ile Ile Phe
 385 390

<210> 3214

<211> 161

<212> PRT

<213> Homo sapiens

<400> 3214

Met Thr Gly Phe Lys Ala Ser Lys Asn Arg Val Thr Leu Leu Ser Asp
 1 5 10 15
 Thr Asn Thr Ala Ala Asp Leu Lys Leu Lys Pro Val Leu Thr Ala His
 20 25 30
 Ser Glu Asn Leu Arg Ile Leu Lys Asn Cys Ala Lys Ser Thr Val Pro
 35 40 45
 Met Cys Asn Lys Ala Leu Met Ala Ala Cys Leu Phe Thr Ile Ser Phe
 50 55 60
 Thr Glu Tyr Leu Lys Pro Thr Thr Glu Asn Tyr Cys Ser Gly Lys Lys
 65 70 75 80

Ile Leu Phe Lys Ile Val Leu Leu Phe Asp Asn Gly Pro Gly His Pro
 85 90 95
 Arg Ala Leu Met Glu Val Cys Lys Glu Met Asn Ala Val Phe Met Pro
 100 105 110
 Ala Asn Thr Thr Pro Val Leu Tyr Ser Met Asp His Arg Val Ile Leu
 115 120 125
 Thr Phe Lys Ser Tyr Tyr Leu Arg Asn Lys Phe Cys Lys Ala Ile Ala
 130 135 140
 Ala Thr His Ser Tyr Ser Cys Asp Gly Ser Gly Gln Ser Lys Leu Lys
 145 150 155 160
 Thr

<210> 3215

<211> 352

<212> PRT

<213> Homo sapiens

<400> 3215

Met Asn Thr Ile Val Phe Asn Lys Leu Ser Gly Ala Val Leu Phe Glu
 1 5 10 15
 Asp Gly Gly Ala Ser Glu Arg Glu Arg Gly Gly Arg Pro Tyr Ser Gly
 20 25 30
 Val Leu Asp Ser Pro His Ala Arg Pro Glu Val Gly Ile Pro Asp Gly
 35 40 45
 Pro Pro Leu Lys Asp Asn Leu Gly Leu Arg His Arg Arg Thr Gly Ala
 50 55 60
 Arg Gln Asn Gly Gly Lys Val Arg His Lys Arg Gln Ala Leu Gln Asp
 65 70 75 80
 Met Ala Arg Pro Leu Lys Gln Trp Leu Tyr Lys His Arg Asp Asn Pro
 85 90 95
 Tyr Pro Thr Lys Thr Glu Lys Ile Leu Leu Ala Leu Gly Ser Gln Met
 100 105 110
 Thr Leu Val Gln Val Ser Asn Trp Phe Ala Asn Ala Arg Arg Arg Leu
 115 120 125

Lys Asn Thr Val Arg Gln Pro Asp Leu Ser Trp Ala Leu Arg Ile Lys
 130 135 140
 Leu Tyr Asn Lys Tyr Val Gln Gly Asn Ala Glu Arg Leu Ser Val Ser
 145 150 155 160
 Ser Asp Asp Ser Cys Ser Glu Asp Gly Glu Asn Pro Pro Arg Thr His
 165 170 175
 Met Asn Glu Gly Gly Tyr Asn Thr Pro Val His His Pro Val Ile Lys
 180 185 190
 Ser Glu Asn Ser Val Ile Lys Ala Gly Val Arg Pro Glu Ser Arg Ala
 195 200 205
 Ser Glu Asp Tyr Val Ala Pro Pro Lys Tyr Lys Ser Ser Leu Leu Asn
 210 215 220
 Arg Tyr Leu Asn Asp Ser Leu Arg His Val Met Ala Thr Asn Thr Thr
 225 230 235 240
 Met Met Gly Lys Thr Arg Gln Arg Asn His Ser Gly Ser Phe Ser Ser
 245 250 255
 Asn Glu Phe Glu Glu Glu Leu Val Ser Pro Ser Ser Ser Glu Thr Glu
 260 265 270
 Gly Asn Phe Val Tyr Arg Thr Asp Thr Leu Glu Asn Gly Ser Asn Lys
 275 280 285
 Gly Glu Ser Ala Ala Asn Arg Lys Gly Pro Ser Lys Asp Asp Thr Tyr
 290 295 300
 Trp Lys Glu Ile Asn Ala Ala Met Ala Leu Thr Asn Leu Ala Gln Gly
 305 310 315 320
 Lys Asp Lys Leu Gln Gly Thr Thr Ser Cys Ile Ile Gln Lys Ser Ser
 325 330 335
 His Ile Ala Glu Val Lys Thr Val Lys Val Pro Leu Val Gln Gln Phe
 340 345 350

<210> 3216

<211> 1284

<212> PRT

<213> Homo sapiens

<400> 3216

Met His Val Phe Ile Val Gly Met Ser Leu Ser Ser Val Thr Leu Ala
 1 5 10 15
 Ser Ala Leu Gln Val Arg Gly Glu Ala Leu Ser Glu Glu Glu Ile Trp
 20 25 30
 Ser Leu Leu Phe Leu Ala Ala Glu Gln Leu Leu Glu Asp Leu Arg Asn
 35 40 45
 Asp Ser Ser Asp Tyr Val Val Cys Pro Trp Ser Ala Leu Leu Ser Ala
 50 55 60
 Ala Gly Ser Leu Ser Phe Gln Gly Arg Val Ser His Ile Glu Ala Ala
 65 70 75 80
 Pro Phe Lys Ala Pro Glu Leu Leu Gln Gly Gln Ser Glu Asp Glu Gln
 85 90 95
 Pro Asp Ala Ser Gln Pro Leu Gln Leu Cys Glu Pro Leu His Ser Ile
 100 105 110
 Leu Leu Thr Met Cys Glu Asp Gln Pro His Arg Arg Cys Thr Leu Gln
 115 120 125
 Ser Val Leu Glu Ala Cys Arg Val His Glu Lys Glu Val Ser Val Tyr
 130 135 140
 Pro Ala Pro Ala Gly Leu His Ile Arg Arg Leu Val Gly Leu Val Leu
 145 150 155 160
 Gly Thr Ile Ser Glu Val Glu Lys Arg Val Val Glu Glu Ser Ser Ser
 165 170 175
 Val Gln Gln Asn Arg Ser Tyr Leu Leu Arg Lys Arg Leu Arg Gly Thr
 180 185 190
 Ser Ser Glu Ser Pro Ala Ala Gln Ala Pro Glu Cys Leu His Pro Cys
 195 200 205
 Arg Val Ser Glu Arg Ser Thr Glu Thr Gln Ser Ser Pro Glu Pro His
 210 215 220
 Trp Ser Thr Leu Thr His Ser His Cys Ser Leu Leu Val Asn Arg Ala
 225 230 235 240
 Leu Pro Gly Ala Asp Pro Gln Asp Gln Gln Ala Gly Arg Arg Leu Ser
 245 250 255
 Ser Gly Ser Val His Ser Ala Ala Asp Ser Ser Trp Pro Thr Thr Pro
 260 265 270
 Ser Gln Arg Gly Phe Leu Gln Arg Arg Ser Lys Phe Ser Arg Pro Glu
 275 280 285

Phe Ile Leu Leu Ala Gly Glu Ala Pro Met Thr Leu His Leu Pro Gly
 290 295 300
 Ser Val Val Thr Lys Lys Gly Lys Ser Tyr Leu Ala Leu Arg Asp Leu
 305 310 315 320
 Cys Val Val Leu Leu Asn Gly Gln His Leu Glu Val Lys Cys Asp Val
 325 330 335
 Glu Ser Thr Val Gly Ala Val Phe Asn Ala Val Thr Ser Phe Ala Asn
 340 345 350
 Leu Glu Glu Leu Thr Tyr Phe Gly Leu Ala Tyr Met Lys Ser Lys Glu
 355 360 365
 Phe Phe Phe Leu Asp Ser Glu Thr Arg Leu Cys Lys Ile Ala Pro Glu
 370 375 380
 Gly Trp Arg Glu Gln Pro Gln Lys Thr Ser Met Asn Thr Phe Thr Leu
 385 390 395 400
 Phe Leu Arg Ile Lys Phe Phe Val Ser His Tyr Gly Leu Leu Gln His
 405 410 415
 Ser Leu Thr Arg His Gln Phe Tyr Leu Gln Leu Arg Lys Asp Ile Leu
 420 425 430
 Glu Glu Arg Leu Tyr Cys Asn Glu Glu Ile Leu Leu Gln Leu Gly Val
 435 440 445
 Leu Ala Leu Gln Ala Glu Phe Gly Asn Tyr Pro Lys Glu Val Glu Ser
 450 455 460
 Lys Pro Tyr Phe His Val Glu Asp Tyr Ile Pro Ala Ser Leu Ile Glu
 465 470 475 480
 Arg Met Thr Ala Leu Arg Val Gln Val Glu Val Ser Glu Met His Arg
 485 490 495
 Leu Ser Ser Ala Leu Trp Gly Glu Asp Ala Glu Leu Glu Phe Leu Arg
 500 505 510
 Val Thr Gln Gln Leu Pro Glu Tyr Gly Val Leu Val His Gln Val Phe
 515 520 525
 Ser Glu Lys Arg Arg Pro Glu Glu Glu Met Ala Leu Gly Ile Cys Ala
 530 535 540
 Lys Gly Val Ile Val Tyr Glu Val Lys Asn Asn Ser Arg Ile Ala Met
 545 550 555 560
 Leu Arg Phe Gln Trp Arg Glu Thr Gly Lys Ile Ser Thr Tyr Gln Lys
 565 570 575

Lys Phe Thr Ile Thr Ser Ser Val Thr Gly Lys Lys His Thr Phe Val
 580 585 590
 Thr Asp Ser Ala Lys Thr Ser Lys Tyr Leu Leu Asp Leu Cys Ser Ala
 595 600 605
 Gln His Gly Phe Asn Ala Gln Met Gly Ser Gly Gln Pro Ser His Val
 610 615 620
 Leu Phe Asp His Asp Lys Phe Val Gln Met Ala Asn Leu Ser Pro Ala
 625 630 635 640
 His Gln Ala Arg Ser Lys Pro Leu Ile Trp Ile Gln Arg Leu Ser Cys
 645 650 655
 Ser Glu Asn Glu Leu Phe Val Ser Arg Leu Gln Gly Ala Ala Gly Gly
 660 665 670
 Leu Leu Ser Thr Ser Met Asp Asn Phe Asn Val Asp Gly Ser Lys Glu
 675 680 685
 Ala Gly Ala Glu Gly Ile Gly Arg Ser Pro Cys Thr Gly Arg Glu Gln
 690 695 700
 Leu Lys Ser Ala Cys Val Ile Gln Lys Pro Met Thr Trp Asp Ser Leu
 705 710 715 720
 Ser Gly Pro Pro Val Gln Ser Met His Ala Gly Ser Lys Asn Asn Arg
 725 730 735
 Arg Lys Ser Phe Ile Ala Glu Pro Gly Arg Glu Ile Val Arg Val Thr
 740 745 750
 Leu Lys Arg Asp Pro His Arg Gly Phe Gly Phe Val Ile Asn Glu Gly
 755 760 765
 Glu Tyr Ser Gly Gln Ala Asp Pro Gly Ile Phe Ile Ser Ser Ile Ile
 770 775 780
 Pro Gly Gly Pro Ala Glu Lys Ala Lys Thr Ile Lys Pro Gly Gly Gln
 785 790 795 800
 Ile Leu Ala Leu Asn His Ile Ser Leu Glu Gly Phe Thr Phe Asn Met
 805 810 815
 Ala Val Arg Met Ile Gln Asn Ser Pro Asp Asn Ile Glu Leu Ile Ile
 820 825 830
 Ser Gln Ser Lys Gly Val Gly Gly Asn Asn Pro Asp Glu Glu Lys Asn
 835 840 845
 Gly Thr Ala Asn Ser Gly Val Ser Ser Thr Asp Ile Leu Ser Phe Gly

850	855	860
Tyr Gln Gly Ser Leu Ser Ser His Thr Gln Asp Gln Asp Arg Asn Thr		
865	870	875
Glu Glu Leu Asp Met Ala Gly Val Gln Ser Leu Val Pro Arg Leu Arg		
885	890	895
His Gln Leu Ser Phe Leu Pro Leu Lys Gly Ala Gly Ser Ser Cys Pro		
900	905	910
Pro Ser Pro Pro Glu Ile Ser Ala Gly Glu Ile Tyr Phe Val Glu Leu		
915	920	925
Val Lys Glu Asp Gly Thr Leu Gly Phe Ser Val Thr Gly Gly Ile Asn		
930	935	940
Thr Ser Val Pro Tyr Gly Gly Ile Tyr Val Lys Ser Ile Val Pro Gly		
945	950	955
Gly Pro Ala Ala Lys Glu Gly Gln Ile Leu Gln Gly Asp Arg Leu Leu		
965	970	975
Gln Val Asp Gly Val Ile Leu Cys Gly Leu Thr His Lys Gln Ala Val		
980	985	990
Gln Cys Leu Lys Gly Pro Gly Gln Val Ala Arg Leu Val Leu Glu Arg		
995	1000	1005
Arg Val Pro Arg Ser Thr Gln Gln Cys Pro Ser Ala Asn Asp Ser Met		
1010	1015	1020
Gly Asp Glu Arg Thr Ala Val Ser Leu Val Thr Ala Leu Pro Gly Arg		
1025	1030	1035
Pro Ser Ser Cys Val Ser Val Thr Asp Gly Pro Lys Phe Glu Val Lys		
1045	1050	1055
Leu Lys Lys Asn Ala Asn Gly Leu Gly Phe Ser Phe Val Gln Met Glu		
1060	1065	1070
Lys Glu Ser Cys Ser His Leu Lys Ser Asp Leu Val Arg Ile Lys Arg		
1075	1080	1085
Leu Phe Pro Gly Gln Pro Ala Glu Glu Asn Gly Ala Ile Ala Ala Gly		
1090	1095	1100
Asp Ile Ile Leu Ala Val Asn Gly Arg Ser Thr Glu Gly Leu Ile Phe		
1105	1110	1115
Gln Glu Val Leu His Leu Leu Arg Gly Ala Pro Gln Glu Val Thr Leu		
1125	1130	1135
Leu Leu Cys Arg Pro Pro Pro Gly Ala Leu Pro Glu Met Glu Gln Glu		

1140 1145 1150
 Trp Gln Thr Pro Glu Leu Ser Ala Asp Lys Glu Phe Thr Arg Ala Thr
 1155 1160 1165
 Cys Thr Asp Ser Cys Thr Ser Pro Ile Leu Asp Gln Glu Asp Ser Trp
 1170 1175 1180
 Arg Asp Ser Ala Ser Pro Asp Ala Gly Glu Gly Leu Gly Leu Arg Pro
 1185 1190 1195 1200
 Glu Ser Ser Gln Lys Ala Ile Arg Glu Ala Gln Trp Gly Gln Asn Arg
 1205 1210 1215
 Glu Arg Pro Trp Ala Ser Ser Leu Thr His Ser Pro Glu Ser His Pro
 1220 1225 1230
 His Leu Cys Lys Leu His Gln Glu Arg Asp Glu Ser Thr Leu Ala Thr
 1235 1240 1245
 Ser Leu Glu Lys Asp Val Arg Gln Asn Cys Tyr Ser Val Cys Asp Ile
 1250 1255 1260
 Met Arg Leu Gly Arg Tyr Ser Phe Ser Ser Pro Leu Thr Arg Leu Ser
 1265 1270 1275 1280
 Thr Asp Ile Phe

<210> 3217

<211> 971

<212> PRT

<213> Homo sapiens

<400> 3217

Met Gly Val Ala Gly Arg Asn Arg Pro Gly Ala Ala Trp Ala Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Leu Leu Ala Gly Ala Val
 20 25 30
 Pro Pro Gly Arg Gly Arg Ala Ala Gly Pro Gln Glu Asp Val Asp Glu
 35 40 45
 Cys Ala Gln Gly Leu Asp Asp Cys His Ala Asp Ala Leu Cys Gln Asn
 50 55 60
 Thr Pro Thr Ser Tyr Lys Cys Ser Cys Lys Pro Gly Tyr Gln Gly Glu

65	70	75	80
Gly Arg Gln Cys Glu Asp Ile Asp Glu Cys Gly Asn Glu Leu Asn Gly			
	85	90	95
Gly Cys Val His Asp Cys Leu Asn Ile Pro Gly Asn Tyr Arg Cys Thr			
	100	105	110
Cys Phe Asp Gly Phe Met Leu Ala His Asp Gly His Asn Cys Leu Asp			
	115	120	125
Val Asp Glu Cys Leu Glu Asn Asn Gly Gly Cys Gln His Thr Cys Val			
	130	135	140
Asn Val Met Gly Ser Tyr Glu Cys Cys Cys Lys Glu Gly Phe Phe Leu			
145	150	155	160
Ser Asp Asn Gln His Thr Cys Ile His Arg Ser Glu Glu Gly Leu Ser			
	165	170	175
Cys Met Asn Lys Asp His Gly Cys Ser His Ile Cys Lys Glu Ala Pro			
	180	185	190
Arg Gly Ser Val Ala Cys Glu Cys Arg Pro Gly Phe Glu Leu Ala Lys			
	195	200	205
Asn Gln Arg Asp Cys Ile Leu Thr Cys Asn His Gly Asn Gly Gly Cys			
	210	215	220
Gln His Ser Cys Asp Asp Thr Ala Asp Gly Pro Glu Cys Ser Cys His			
225	230	235	240
Pro Gln Tyr Lys Met His Thr Asp Gly Arg Ser Cys Leu Glu Arg Glu			
	245	250	255
Asp Thr Val Leu Glu Val Thr Glu Ser Asn Thr Thr Ser Val Val Asp			
	260	265	270
Gly Asp Lys Arg Val Lys Arg Arg Leu Leu Met Glu Thr Cys Ala Val			
	275	280	285
Asn Asn Gly Gly Cys Asp Arg Thr Cys Lys Asp Thr Ser Thr Gly Val			
	290	295	300
His Cys Ser Cys Pro Val Gly Phe Thr Leu Gln Leu Asp Gly Lys Thr			
305	310	315	320
Cys Lys Asp Ile Asp Glu Cys Gln Thr Arg Asn Gly Gly Cys Asp His			
	325	330	335
Phe Cys Lys Asn Ile Val Gly Ser Phe Asp Cys Gly Cys Lys Lys Gly			
	340	345	350
Phe Lys Leu Leu Thr Asp Glu Lys Ser Cys Gln Asp Val Asp Glu Cys			

355	360	365
Ser Leu Asp Arg Thr Cys Asp His Ser Cys Ile Asn His Pro Gly Thr		
370	375	380
Phe Ala Cys Ala Cys Asn Arg Gly Tyr Thr Leu Tyr Gly Phe Thr His		
385	390	395
Cys Gly Asp Thr Asn Glu Cys Ser Ile Asn Asn Gly Gly Cys Gln Gln		
	405	410
Val Cys Val Asn Thr Val Gly Ser Tyr Glu Cys Gln Cys His Pro Gly		
	420	425
Tyr Lys Leu His Trp Asn Lys Lys Asp Cys Val Glu Val Lys Gly Leu		
	435	440
Leu Pro Thr Ser Val Ser Pro Arg Val Ser Leu His Cys Gly Lys Ser		
	450	455
Gly Gly Gly Asp Gly Cys Phe Leu Arg Cys His Ser Gly Ile His Leu		
465	470	475
Ser Ser Gly Leu Gln Gly Ala Tyr Ser Val Thr Cys Gly Ser Ser Ser		
	485	490
Pro Leu Arg Asn Lys Gln Gln Lys Ser Asn Asp Ser Ala Phe Gly Asp		
	500	505
Val Thr Thr Ile Arg Thr Ser Val Thr Phe Lys Leu Asn Glu Gly Lys		
	515	520
Cys Ser Leu Lys Asn Ala Glu Leu Phe Pro Glu Gly Leu Arg Pro Ala		
	530	535
Leu Pro Glu Lys His Ser Ser Val Lys Glu Ser Phe Arg Tyr Val Asn		
545	550	555
Leu Thr Cys Ser Ser Gly Lys Gln Val Pro Gly Ala Pro Gly Arg Pro		
	565	570
Ser Thr Pro Lys Glu Met Phe Ile Thr Val Glu Phe Glu Leu Glu Thr		
	580	585
Asn Gln Lys Glu Val Thr Ala Ser Cys Asp Leu Ser Cys Ile Val Lys		
	595	600
Arg Thr Glu Lys Arg Leu Arg Lys Ala Ile Arg Met Leu Arg Lys Ala		
	610	615
Val His Arg Glu Gln Phe His Leu Gln Leu Ser Gly Met Asn Leu Asp		
625	630	635
Val Ala Lys Lys Pro Pro Arg Thr Ser Glu Arg Gln Ala Glu Ser Cys		

	645		650		655
Gly Val Gly Gln Gly His Ala Glu Asn Gln Cys Gly Leu Cys Gln Pro					
	660		665		670
Gly Glu Tyr Ser Ala Asp Gly Phe Ala Pro Cys Gln Leu Cys Ala Leu					
	675		680		685
Gly Thr Phe Gln Pro Glu Ala Gly Arg Thr Ser Cys Phe Pro Cys Gly					
	690		695		700
Gly Gly Leu Ala Thr Lys His Gln Gly Ala Thr Ser Phe Gln Asp Cys					
705		710		715	720
Glu Thr Arg Val Gln Cys Ser Pro Gly His Phe Tyr Asn Thr Thr Thr					
	725		730		735
His Arg Cys Ile Arg Cys Pro Val Gly Thr Tyr Gln Pro Glu Phe Gly					
	740		745		750
Lys Asn Asn Cys Val Ser Cys Pro Gly Asn Thr Thr Thr Asp Phe Asp					
	755		760		765
Gly Ser Thr Asn Ile Thr Gln Cys Lys Asn Arg Arg Cys Gly Gly Glu					
	770		775		780
Leu Gly Asp Phe Thr Gly Tyr Ile Glu Ser Pro Asn Tyr Pro Gly Asn					
785		790		795	800
Tyr Pro Ala Asn Thr Glu Cys Thr Trp Thr Ile Asn Pro Pro Pro Lys					
	805		810		815
Arg Arg Ile Leu Ile Val Val Pro Glu Ile Phe Leu Pro Ile Glu Asp					
	820		825		830
Asp Cys Gly Asp Tyr Leu Val Met Arg Lys Thr Ser Ser Ser Asn Ser					
	835		840		845
Val Thr Thr Tyr Glu Thr Cys Gln Thr Tyr Glu Arg Pro Ile Ala Phe					
	850		855		860
Thr Ser Arg Ser Lys Lys Leu Trp Ile Gln Phe Lys Ser Asn Glu Gly					
865		870		875	880
Asn Ser Ala Arg Gly Phe Gln Gly Pro Tyr Val Thr Tyr Asp Glu Asp					
	885		890		895
Tyr Gln Glu Leu Ile Glu Asp Ile Val Arg Asp Gly Arg Leu Tyr Ala					
	900		905		910
Ser Glu Asn His Gln Glu Ile Leu Lys Asp Lys Lys Leu Ile Lys Ala					
	915		920		925
Leu Phe Asp Val Leu Ala His Pro Gln Asn Tyr Phe Lys Tyr Thr Ala					

930	935	940	
Gln Glu Ser Arg Glu Met Phe Pro Arg Ser Phe Ile Arg Leu Leu Arg			
945	950	955	960
Ser Lys Val Ser Arg Phe Leu Arg Pro Tyr Lys			
	965	970	

<210> 3218

<211> 426

<212> PRT

<213> Homo sapiens

<400> 3218

Met Leu Gly Ser Phe Ser Gly Thr Thr Val Pro Ala Leu Leu Asn Ser			
1	5	10	15
Thr Ser Asn Gln Leu Tyr Leu His Phe Tyr Ser Asp Ile Ser Val Ser			
	20	25	30
Ala Ala Gly Phe His Leu Glu Tyr Lys Thr Val Gly Leu Ser Ser Cys			
	35	40	45
Pro Glu Pro Ala Val Pro Ser Asn Gly Val Lys Thr Gly Glu Arg Tyr			
	50	55	60
Leu Val Asn Asp Val Val Ser Phe Gln Cys Glu Pro Gly Tyr Ala Leu			
	65	70	75
Gln Gly His Ala His Ile Ser Cys Met Pro Gly Thr Val Arg Arg Trp			
	85	90	95
Asn Tyr Pro Pro Pro Leu Cys Ile Ala Gln Cys Gly Gly Thr Val Glu			
	100	105	110
Glu Met Glu Gly Val Ile Leu Ser Leu Gly Phe Pro Gly Asn Tyr Pro			
	115	120	125
Ser Asn Met Asp Cys Ser Trp Lys Ile Ala Leu Pro Val Gly Phe Gly			
	130	135	140
Ala His Ile Gln Phe Leu Asn Phe Ser Thr Glu Pro Asn His Asp Tyr			
	145	150	155
Ile Glu Ile Arg Asn Gly Pro Tyr Glu Thr Ser Arg Met Met Gly Arg			
	165	170	175
Phe Ser Gly Ser Glu Leu Pro Ser Ser Leu Leu Ser Thr Ser His Glu			

180	185	190
Thr Thr Val Tyr Phe His Ser Asp	His Ser Gln Asn Arg	Pro Gly Phe
195	200	205
Lys Leu Glu Tyr Gln Ala Tyr Glu	Leu Gln Glu Cys Pro Asp	Pro Glu
210	215	220
Pro Phe Ala Asn Gly Ile Val Arg	Gly Ala Gly Tyr Asn Val	Gly Gln
225	230	235
Ser Val Thr Phe Glu Cys Leu Pro	Gly Tyr Gln Leu Thr Gly	His Pro
245	250	255
Val Leu Thr Cys Gln His Gly Thr	Asn Arg Asn Trp Asp	His Pro Leu
260	265	270
Pro Lys Cys Glu Val Pro Cys Gly	Gly Asn Ile Thr Ser Ser	Asn Gly
275	280	285
Thr Val Tyr Ser Pro Gly Phe Pro	Ser Pro Tyr Ser Ser Ser	Gln Asp
290	295	300
Cys Val Trp Leu Ile Thr Val Pro	Ile Gly His Gly Val Arg	Leu Asn
305	310	315
Leu Ser Leu Leu Gln Thr Glu Pro	Ser Gly Asp Phe Ile Thr	Ile Trp
325	330	335
Asp Gly Pro Gln Gln Thr Ala Pro	Arg Leu Gly Val Phe Thr	Arg Ser
340	345	350
Met Ala Lys Lys Thr Val Gln Ser	Ser Ser Asn Gln Val Leu	Leu Lys
355	360	365
Phe His Arg Asp Ala Ala Thr Gly	Gly Ile Phe Ala Ile Ala	Phe Ser
370	375	380
Asp His Cys Arg Tyr Phe Asn Gln	Lys Ser Gly Lys Leu Asp	Phe Thr
385	390	395
Pro Ser Ser Thr Leu Gly Gln Leu	Cys Lys Thr Leu His Arg	Ser Leu
405	410	415
Pro His Leu Arg Leu Gln Phe Leu	His Leu	
420	425	

<210> 3219

<211> 292

<212> PRT

<213> Homo sapiens

<400> 3219

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Met Ser Arg Ile Pro Leu Gly Lys Val Leu Leu Arg Asn Val Ile Arg
  1             5             10             15
His Thr Asp Ala His Asn Lys Ile Gln Glu Glu Ser Asp Met Trp Lys
      20             25             30
Ile Arg Glu Leu Glu Lys Gln Met Glu Asp Ala Tyr Arg Gly Thr Lys
      35             40             45
Arg Lys Met Leu Pro Ser Ser Ser Ser Arg Met Arg Ser Asp Gly Phe
      50             55             60
Asp Glu Glu Ser Gln Arg Tyr Tyr Trp Arg Pro Lys Asn Glu Ile Ser
      65             70             75             80
Gly Thr Leu Glu Asp Asp Phe Leu Lys Ala Lys Ser Trp Asn Lys Lys
      85             90             95
Phe Tyr Asp Tyr Glu Ala Asn Met Pro Asp Arg Trp Gly His Ser Gly
      100            105            110
Tyr Lys Glu Leu Tyr Pro Glu Glu Phe Glu Thr Asn Ser Asp Gln Gln
      115            120            125
Asp Ile Thr Asn Gly Lys Lys Thr Ser Pro Gln Val Lys Ser Ser Thr
      130            135            140
His Glu Ser Arg Lys His Lys Lys Ser Lys Lys Ser His Lys Lys Lys
      145            150            155            160
Gln Lys Lys Arg Ser His Lys Lys Gln Lys Lys Ser Lys Lys Glu Ala
      165            170            175
Thr Asp Ile Thr Ala Asp Ser Ser Ser Glu Phe Ser Glu Glu Thr Gly
      180            185            190
Ala Ser Gly Thr Arg Lys Gly Lys Gln Pro His Lys Arg Lys Lys Lys
      195            200            205
Ser Arg Lys Lys Ser Leu Lys Lys Pro Ala Leu Phe Leu Glu Ala Glu
      210            215            220
Ser Asn Thr Ser His Ser Asp Asp Ser Ala Ser Ser Ser Ser Glu Glu
      225            230            235            240
Ser Glu Glu Arg Asp Thr Lys Lys Thr Lys Arg Lys Lys Arg Glu Lys
      245            250            255

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Lys Ala His Thr Ser Val Ala Asn Asn Glu Ile Gln Glu Arg Thr Asn
 260 265 270
 Lys Arg Thr Asn Trp Lys Val Ala Thr Asp Glu Arg Ser Ala Glu Ser
 275 280 285
 Ser Glu Asp Asp
 290

<210> 3220

<211> 1023

<212> PRT

<213> Homo sapiens

<400> 3220

Met Ser Leu Gly Val Ala Ala Ile Asn Gln Ala Ile Lys Glu Gly Lys
 1 5 10 15
 Ala Ala Gln Thr Glu Arg Val Leu Arg Asn Pro Ala Val Ala Leu Arg
 20 25 30
 Gly Val Val Pro Asp Cys Ala Asn Gly Tyr Gln Arg Ala Leu Glu Ser
 35 40 45
 Ala Met Ala Lys Lys Gln Arg Pro Ala Asp Thr Ala Phe Trp Val Gln
 50 55 60
 His Asp Met Lys Asp Gly Thr Ala Tyr Tyr Phe His Leu Gln Thr Phe
 65 70 75 80
 Gln Gly Ile Trp Glu Gln Pro Pro Gly Cys Pro Leu Asn Thr Ser His
 85 90 95

 Leu Thr Arg Glu Glu Ile Gln Ser Ala Val Thr Lys Val Thr Ala Ala
 100 105 110
 Tyr Asp Arg Gln Gln Leu Trp Lys Ala Asn Val Gly Phe Val Ile Gln
 115 120 125
 Leu Gln Ala Arg Leu Arg Gly Phe Leu Val Arg Gln Lys Phe Ala Glu
 130 135 140
 His Ser His Phe Leu Arg Thr Trp Leu Pro Ala Val Ile Lys Ile Gln
 145 150 155 160
 Ala His Trp Arg Gly Tyr Arg Gln Arg Lys Ile Tyr Leu Glu Trp Leu

	165		170		175
Gln Tyr Phe	Lys Ala Asn Leu Asp	Ala Ile Ile Lys	Ile Gln Ala Trp		
	180		185		190
Ala Arg Met	Trp Ala Ala Arg Arg	Gln Tyr Leu Arg	Arg Leu His Tyr		
	195		200		205
Phe Gln Lys	Asn Val Asn Ser Ile	Val Lys Ile Gln	Ala Phe Phe Arg		
	210		215		220
Ala Arg Lys	Ala Gln Asp Asp Tyr	Arg Ile Leu Val	His Ala Pro His		
225		230		235	240
Pro Pro Leu	Ser Val Val Arg Arg	Phe Ala His Leu	Leu Asn Gln Ser		
	245		250		255
Gln Gln Asp	Phe Leu Ala Glu Ala	Glu Leu Leu Lys	Leu Gln Glu Glu		
	260		265		270
Val Val Arg	Lys Ile Arg Ser Asn	Gln Gln Leu Glu	Gln Asp Leu Asn		
	275		280		285
Ile Met Asp	Ile Lys Ile Gly Leu	Leu Val Lys Asn	Arg Ile Thr Leu		
	290		295		300
Gln Glu Val	Val Ser His Cys Lys	Lys Leu Thr Lys	Arg Asn Lys Glu		
305		310		315	320
Gln Leu Ser	Asp Met Met Val Leu	Asp Lys Gln Lys	Gly Leu Lys Ser		
	325		330		335
Leu Ser Lys	Glu Lys Arg Gln Lys	Leu Glu Ala Tyr	Gln His Leu Phe		
	340		345		350
Tyr Leu Leu	Gln Thr Gln Pro Ile	Tyr Leu Ala Lys	Leu Ile Phe Gln		
	355		360		365
Met Pro Gln	Asn Lys Thr Thr Lys	Phe Met Glu Ala	Val Ile Phe Ser		
	370		375		380
Leu Tyr Asn	Tyr Ala Ser Ser Arg	Arg Glu Ala Tyr	Leu Leu Leu Gln		
385		390		395	400
Leu Phe Lys	Thr Ala Leu Gln Glu	Glu Ile Lys Ser	Lys Val Glu Gln		
	405		410		415
Pro Gln Asp	Val Val Thr Gly Asn	Pro Thr Val Val	Arg Leu Val Val		
	420		425		430
Arg Phe Tyr	Arg Asn Gly Arg Gly	Gln Ser Ala Leu	Gln Glu Ile Leu		
	435		440		445
Gly Lys Val	Ile Gln Asp Val Leu	Glu Asp Lys Val	Leu Ser Val His		

450	455	460	
Thr Asp Pro Val His Leu Tyr Lys Asn Trp Ile Asn Gln Thr Glu Ala			
465	470	475	480
Gln Thr Gly Gln Arg Ser His Leu Pro Tyr Asp Val Thr Pro Glu Gln			
	485	490	495
Ala Leu Ser His Pro Glu Val Gln Arg Arg Leu Asp Ile Ala Leu Arg			
	500	505	510
Asn Leu Leu Ala Met Thr Asp Lys Phe Leu Leu Ala Ile Thr Ser Ser			
	515	520	525
Val Asp Gln Ile Pro Tyr Gly Met Arg Tyr Val Ala Lys Val Leu Lys			
	530	535	540
Ala Thr Leu Ala Glu Lys Phe Pro Asp Ala Thr Asp Ser Glu Val Tyr			
545	550	555	560
Lys Val Val Gly Asn Leu Leu Tyr Tyr Arg Phe Leu Asn Pro Ala Val			
	565	570	575
Val Ala Pro Asp Ala Phe Asp Ile Val Ala Met Ala Ala Gly Gly Ala			
	580	585	590
Leu Ala Ala Pro Gln Arg His Ala Leu Gly Ala Val Ala Gln Leu Leu			
	595	600	605
Gln His Ala Ala Ala Gly Lys Ala Phe Ser Gly Gln Ser Gln His Leu			
	610	615	620
Arg Val Leu Asn Asp Tyr Leu Glu Glu Thr His Leu Lys Phe Arg Lys			
625	630	635	640
Phe Ile His Arg Ala Cys Gln Val Pro Glu Pro Glu Glu Arg Phe Ala			
	645	650	655
Val Asp Glu Tyr Ser Asp Met Val Ala Val Ala Lys Pro Met Val Tyr			
	660	665	670
Ile Thr Val Gly Glu Leu Val Asn Thr His Arg Leu Leu Leu Glu His			
	675	680	685
Gln Asp Cys Ile Ala Pro Asp His Gln Asp Pro Leu His Glu Leu Leu			
	690	695	700
Glu Asp Leu Gly Glu Leu Pro Thr Ile Pro Asp Leu Ile Gly Glu Ser			
705	710	715	720
Ile Ala Ala Asp Gly His Thr Asp Leu Ser Lys Leu Glu Val Ser Leu			
	725	730	735
Thr Leu Thr Asn Lys Phe Glu Gly Leu Glu Ala Asp Ala Asp Asp Ser			

740	745	750
Asn Thr Arg Ser Leu Leu Leu Ser Thr Lys Gln Leu Leu Ala Asp Ile		
755	760	765
Ile Gln Phe His Pro Gly Asp Thr Leu Lys Glu Ile Leu Ser Leu Ser		
770	775	780
Ala Ser Arg Glu Gln Glu Ala Ala His Lys Gln Leu Met Ser Arg Arg		
785	790	795
Gln Ala Cys Thr Ala Gln Thr Pro Glu Pro Leu Arg Arg His Arg Ser		
805	810	815
Leu Thr Ala His Ser Leu Leu Pro Leu Ala Glu Lys Gln Arg Arg Val		
820	825	830
Leu Arg Asn Leu Arg Arg Leu Glu Ala Leu Gly Leu Val Ser Ala Arg		
835	840	845
Asn Gly Tyr Gln Gly Leu Val Asp Glu Leu Ala Lys Asp Ile Arg Asn		
850	855	860
Gln His Arg His Arg His Arg Arg Lys Ala Glu Leu Val Lys Leu Gln		
865	870	875
Ala Thr Leu Gln Gly Leu Ser Thr Lys Thr Thr Phe Tyr Glu Glu Gln		
885	890	895
Gly Asp Tyr Tyr Ser Gln Tyr Ile Arg Ala Cys Leu Asp His Leu Ala		
900	905	910
Pro Asp Ser Lys Ser Ser Gly Lys Gly Lys Lys Gln Pro Ser Leu His		
915	920	925
Tyr Thr Ala Ala Gln Leu Leu Glu Lys Gly Val Leu Val Glu Ile Glu		
930	935	940
Asp Leu Pro Ala Ser His Phe Arg Asn Val Ile Phe Asp Ile Thr Pro		
945	950	955
Gly Asp Glu Ala Gly Lys Phe Glu Val Asn Ala Lys Phe Leu Gly Val		
965	970	975
Asp Met Glu Arg Phe Gln Leu His Tyr Gln Asp Leu Leu Gln Leu Gln		
980	985	990
Tyr Glu Gly Val Ala Val Met Lys Leu Phe Asn Lys Ala Lys Val Asn		
995	1000	1005
Val Asn Leu Leu Ile Phe Leu Leu Asn Lys Lys Phe Leu Arg Lys		
1010	1015	1020

<210> 3221

<211> 791

<212> PRT

<213> Homo sapiens

<400> 3221

```

Met Asp Gly Glu Ser Glu Val Asp Phe Ser Ser Asn Ser Ile Thr Pro
  1              5              10              15
Leu Trp Arg Arg Arg Ser Ile Pro Gln Pro His Gln Leu Leu Gly Arg
      20              25              30
Ser Lys Pro Arg Pro Gln Ser Tyr Gln Ser Pro Asn Gly Leu Leu Ile
      35              40              45
Thr Asp Phe Pro Val Glu Asp Gly Gly Thr Leu Ser Ala Ala Gln Ile
      50              55              60
Pro Ala Gln Val Pro Thr Ala Ser Asp Ser Arg Thr Val His Arg Ser
      65              70              75              80
Pro Leu Leu Leu Gly Ala Gln Arg Arg Ala Val Ala Asn Gly Gly Thr
      85              90              95
Ala Ser Pro Glu Tyr Arg Ala Ala Ser Pro Arg Leu Arg Arg Pro Lys
      100             105             110
Ser Pro Lys Leu Pro Lys Ala Val Pro Gly Gly Ser Pro Lys Ser Pro
      115             120             125
Ala Asn Gly Ala Val Thr Leu Pro Ala Pro Pro Pro Pro Val Leu
      130             135             140
Arg Pro Pro Arg Thr Pro Asn Ala Pro Ala Pro Cys Thr Pro Glu Glu
      145             150             155             160
Asp Leu Thr Gly Leu Thr Ala Ser Pro Val Pro Ser Pro Thr Ala Asn
      165             170             175
Gly Leu Ala Ala Asn Asn Asp Ser Pro Gly Ser Gly Ser Gln Ser Gly
      180             185             190
Arg Lys Ala Lys Asp Pro Glu Arg Gly Leu Phe Pro Gly Pro Gln Lys
      195             200             205
Ser Ser Ser Glu Gln Lys Leu Pro Leu Gln Arg Leu Pro Ser Gln Glu
      210             215             220
Asn Glu Leu Leu Glu Asn Pro Ser Val Val Leu Ser Thr Asn Ser Pro

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225 230 235 240
 Ala Ala Leu Lys Val Gly Lys Gln Gln Ile Ile Pro Lys Ser Leu Ala
 245 250 255
 Ser Glu Ile Lys Ile Ser Lys Ser Asn Asn Gln Asn Val Glu Pro His
 260 265 270
 Lys Arg Leu Leu Lys Val Arg Ser Met Val Glu Gly Leu Gly Gly Pro
 275 280 285
 Leu Gly His Ala Gly Glu Glu Ser Glu Val Asp Asn Asp Val Asp Ser
 290 295 300
 Pro Gly Ser Leu Arg Arg Gly Leu Arg Ser Thr Ser Tyr Arg Arg Ala
 305 310 315 320
 Val Val Ser Gly Phe Asp Phe Asp Ser Pro Thr Ser Ser Lys Lys Lys
 325 330 335
 Asn Arg Met Ser Gln Pro Val Leu Lys Val Val Met Glu Asp Lys Glu
 340 345 350
 Lys Phe Ser Ser Leu Gly Arg Ile Lys Lys Lys Met Leu Lys Gly Gln
 355 360 365
 Gly Thr Phe Asp Gly Glu Glu Asn Ala Val Leu Tyr Gln Asn Tyr Lys
 370 375 380
 Glu Lys Ala Leu Asp Ile Asp Ser Asp Glu Glu Ser Glu Pro Lys Glu
 385 390 395 400
 Gln Lys Ser Asp Glu Lys Ile Val Ile His His Lys Pro Leu Arg Ser
 405 410 415
 Thr Trp Ser Gln Leu Ser Ala Val Lys Arg Lys Gly Leu Ser Gln Thr
 420 425 430
 Val Ser Gln Glu Glu Arg Lys Arg Gln Glu Ala Ile Phe Glu Val Ile
 435 440 445
 Ser Ser Glu His Ser Tyr Leu Leu Ser Leu Glu Ile Leu Ile Arg Met
 450 455 460
 Phe Lys Asn Ser Lys Glu Leu Ser Asp Thr Met Thr Lys Thr Glu Arg
 465 470 475 480
 His His Leu Phe Ser Asn Ile Thr Asp Val Cys Glu Ala Ser Lys Lys
 485 490 495
 Phe Phe Ile Glu Leu Glu Ala Arg His Gln Asn Asn Ile Phe Ile Asp
 500 505 510
 Asp Ile Ser Asp Ile Val Glu Lys His Thr Ala Ser Thr Phe Asp Pro

515	520	525
Tyr Val Lys Tyr Cys Thr Asn Glu Val Tyr Gln Gln Arg Thr Leu Gln		
530	535	540
Lys Leu Leu Ala Thr Asn Pro Ser Phe Lys Glu Val Leu Ser Arg Ile		
545	550	555
Glu Ser His Glu Asp Cys Arg Asn Leu Pro Met Ile Ser Phe Leu Ile		
565	570	575
Leu Pro Met Gln Arg Val Thr Arg Leu Pro Leu Leu Met Asp Thr Ile		
580	585	590
Cys Gln Lys Thr Pro Lys Asp Ser Pro Lys Tyr Glu Val Cys Lys Arg		
595	600	605
Ala Leu Lys Glu Val Ser Lys Leu Val Arg Leu Cys Asn Glu Gly Ala		
610	615	620
Arg Lys Met Glu Arg Thr Glu Met Met Tyr Thr Ile Asn Ser Gln Leu		
625	630	635
Glu Phe Lys Ile Lys Pro Phe Pro Leu Val Ser Ser Ser Arg Trp Leu		
645	650	655
Val Lys Arg Gly Glu Leu Thr Ala Tyr Val Glu Asp Thr Val Leu Phe		
660	665	670
Ser Arg Arg Thr Ser Lys Gln Gln Val Tyr Phe Phe Leu Phe Asn Asp		
675	680	685
Val Leu Ile Ile Thr Lys Lys Lys Ser Glu Glu Ser Tyr Asn Val Asn		
690	695	700
Asp Tyr Ser Leu Arg Asp Gln Leu Leu Val Glu Ser Cys Asp Asn Glu		
705	710	715
Glu Leu Asn Ser Ser Pro Gly Lys Asn Ser Ser Thr Met Leu Tyr Ser		
725	730	735
Arg Gln Ser Ser Ala Ser His Leu Phe Thr Leu Thr Val Leu Ser Asn		
740	745	750
His Ala Asn Glu Lys Val Glu Met Leu Leu Gly Ala Glu Thr Gln Ser		
755	760	765
Glu Arg Ala Arg Trp Ile Thr Ala Leu Gly His Ser Ser Gly Lys Pro		
770	775	780
Pro Ala Asp Arg Thr Cys Gly		
785	790	

<210> 3222

<211> 214

<212> PRT

<213> Homo sapiens

<400> 3222

```

Met Arg Val Ser Met Gln Gln Thr Ala Gln Gly Gly Gly Pro His Gly
 1             5             10             15
Gln Arg Arg Asp Ala Asp Leu Arg Pro Ala Pro Pro Lys Leu Pro Val
      20             25             30
Gln Met Pro Leu Thr Pro Ser Asn Gln Gln Gln Asp Arg His Cys Val
      35             40             45
Arg Lys Val Gly Arg His Pro His Pro Cys Thr Ala Ala Ala Thr Pro
      50             55             60
Leu Ala Pro Asn Ala Lys Ala Phe Lys Asp Ala Ala Gln Lys His His
      65             70             75             80
Gln Gln His Lys Gly Arg Ser Gln Glu Pro Glu Leu Thr Ser Leu Pro
      85             90             95
Pro Ser Ser Glu Val Ser Phe Pro Thr Phe Ser Glu Leu Ser Val Ser
      100            105            110
Met Ala Ser Ser Ala Thr Ser Ala Thr Ser Pro Asp Val Leu Ala Ser
      115            120            125
Val Ser Ile Ala Ser Ser Trp Pro Ser Ser Ala Arg Cys Ser Lys Pro
      130            135            140
Thr Ala Val Glu Ala Asn Val Ile Ala Leu Pro Leu Arg Arg Trp His
      145            150            155            160
Arg Asp Trp Gln Arg Cys His Leu Gly Val Cys Val Leu Ser Leu Arg
      165            170            175
Val Gln Ala Ser Pro Ala Pro Ala Val Val Leu Gly Pro Gln Met Arg
      180            185            190
Asp His Gly His Glu Asp Gln Pro Pro Arg Gln Pro Leu Pro Ser Ser
      195            200            205
Leu Gly Ser Gly Val Phe
      210

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<210> 3223

<211> 155

<212> PRT

<213> Homo sapiens

<400> 3223

```

Met Ile Phe Lys Phe Pro Ser Ser Phe Leu Val Leu Trp Ser Leu Leu
  1             5             10             15
Arg Cys Gly Arg Lys Gln Phe Val Ser Cys Ala Glu Gln Phe Arg Ser
      20             25             30
Pro Gly Ser Leu Ser Pro Gly Pro Lys Pro Pro Arg Arg Glu Ser Phe
      35             40             45
Ser Gly Pro Trp Glu Gln Val Leu Lys Gly Phe Leu Leu Lys Arg Gly
      50             55             60
Arg Gln Pro Ala Val Arg Val Arg Ile Val Val Val Pro Glu Pro Tyr
      65             70             75             80
Gly Gln Ser Phe Glu Arg Ile Gly Leu Gly Arg Phe Ser Gly Gln Lys
      85             90             95
Arg Leu Ile Ser Ile Leu Gly Ala Leu Ser His Lys Gly Tyr Leu Ile
      100            105            110
Glu Arg Lys Asn Gly Val Cys Gly Ser Phe Ala Pro Ile Ser Lys Trp
      115            120            125
Val Asp Ser Gly Cys Lys Gly Ile Phe Ser His Phe Ser Gln Gln Arg
      130            135            140
Lys Ala Phe Ser Ala Lys Ile Leu Lys Gly Glu
      145            150            155

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<210> 3224

<211> 751

<212> PRT

<213> Homo sapiens

<400> 3224

Met Arg Leu Lys Ile Ser Leu Leu Lys Glu Pro Lys His Gln Glu Leu
 1 5 10 15
 Val Ser Cys Val Gly Trp Thr Thr Ala Glu Glu Leu Tyr Ser Cys Ser
 20 25 30
 Asp Asp His Gln Ile Val Lys Trp Asn Leu Leu Thr Ser Glu Thr Thr
 35 40 45
 Gln Ile Val Lys Leu Pro Asp Asp Ile Tyr Pro Ile Asp Phe His Trp
 50 55 60
 Phe Pro Lys Ser Leu Gly Val Lys Lys Gln Thr Gln Ala Glu Ser Phe
 65 70 75 80
 Val Leu Thr Ser Ser Asp Gly Lys Phe His Leu Ile Ser Lys Leu Gly
 85 90 95
 Arg Val Glu Lys Ser Val Glu Ala His Cys Gly Ala Val Leu Ala Gly
 100 105 110
 Arg Trp Asn Tyr Glu Gly Thr Ala Leu Val Thr Val Gly Glu Asp Gly
 115 120 125
 Gln Ile Lys Ile Trp Ser Lys Thr Gly Met Leu Arg Ser Thr Leu Ala
 130 135 140
 Gln Gln Gly Thr Pro Val Tyr Ser Val Ala Trp Gly Pro Asp Ser Glu
 145 150 155 160
 Lys Val Leu Tyr Thr Ala Gly Lys Gln Leu Ile Ile Lys Pro Leu Gln
 165 170 175
 Pro Asn Ala Lys Val Leu Gln Trp Lys Ala His Asp Gly Ile Ile Leu
 180 185 190
 Lys Val Asp Trp Asn Ser Val Asn Asp Leu Ile Leu Ser Ala Gly Glu
 195 200 205
 Asp Cys Lys Tyr Lys Val Trp Asp Ser Tyr Gly Arg Pro Leu Tyr Asn
 210 215 220
 Ser Gln Pro His Glu His Pro Ile Thr Ser Val Ala Trp Ala Pro Asp
 225 230 235 240
 Gly Glu Leu Phe Ala Val Gly Ser Phe His Thr Leu Arg Leu Cys Asp
 245 250 255
 Lys Thr Gly Trp Ser Tyr Ala Leu Glu Lys Pro Asn Thr Gly Ser Ile
 260 265 270
 Phe Asn Ile Ala Trp Ser Ile Asp Gly Thr Gln Ile Ala Gly Ala Cys
 275 280 285

Gly Asn Gly His Val Val Phe Ala His Val Val Glu Gln His Trp Glu
 290 295 300
 Trp Lys Asn Phe Gln Val Thr Leu Thr Lys Arg Arg Ala Met Gln Val
 305 310 315 320
 Arg Asn Val Leu Asn Asp Ala Val Asp Leu Leu Glu Phe Arg Asp Arg
 325 330 335
 Val Ile Lys Ala Ser Leu Asn Tyr Ala His Leu Val Val Ser Thr Ser
 340 345 350
 Leu Gln Cys Tyr Val Phe Ser Thr Lys Asn Trp Asn Thr Pro Ile Ile
 355 360 365
 Phe Asp Leu Lys Glu Gly Thr Val Ser Leu Ile Leu Gln Ala Glu Arg
 370 375 380
 His Phe Leu Leu Val Asp Gly Ser Ser Ile Tyr Leu Tyr Ser Tyr Glu
 385 390 395 400
 Gly Arg Phe Ile Ser Ser Pro Lys Phe Pro Gly Met Arg Thr Asp Ile
 405 410 415
 Leu Asn Ala Gln Thr Val Ser Leu Ser Asn Asp Thr Ile Ala Ile Arg
 420 425 430
 Asp Lys Ala Asp Glu Lys Ile Ile Phe Leu Phe Glu Ala Ser Thr Gly
 435 440 445
 Lys Pro Leu Gly Asp Gly Lys Phe Leu Ser His Lys Asn Glu Ile Leu
 450 455 460
 Glu Ile Ala Leu Asp Gln Lys Gly Leu Thr Asn Asp Arg Lys Ile Ala
 465 470 475 480
 Phe Ile Asp Lys Asn Arg Asp Leu Cys Ile Thr Ser Val Lys Arg Phe
 485 490 495
 Gly Lys Glu Glu Gln Ile Ile Lys Leu Gly Thr Met Val His Thr Leu
 500 505 510
 Ala Trp Asn Asp Thr Cys Asn Ile Leu Cys Gly Leu Gln Asp Thr Arg
 515 520 525
 Phe Ile Val Trp Tyr Tyr Pro Asn Thr Val Tyr Val Asp Arg Asp Ile
 530 535 540
 Leu Pro Lys Thr Leu Tyr Glu Arg Asp Ala Ser Glu Phe Ser Lys Asn
 545 550 555 560
 Pro His Ile Val Ser Phe Val Gly Asn Gln Val Thr Ile Arg Arg Ala
 565 570 575

Asp Gly Ser Leu Val His Ile Ser Ile Pro Pro Tyr Pro Ala Ile Leu
 580 585 590
 His Glu Tyr Val Ser Ser Ser Lys Trp Glu Asp Ala Val Arg Leu Cys
 595 600 605
 Arg Phe Val Lys Glu Gln Thr Met Trp Ala Cys Leu Ala Ala Met Ala
 610 615 620
 Val Ala Asn Arg Asp Met Thr Thr Ala Glu Ile Ala Tyr Ala Ala Ile
 625 630 635 640
 Gly Glu Ile Asp Lys Val Gln Tyr Ile Asn Ser Ile Lys Asn Leu Pro
 645 650 655
 Ser Lys Glu Ser Lys Met Ala His Ile Leu Leu Phe Ser Gly Asn Ile
 660 665 670
 Gln Glu Ala Glu Ile Val Leu Leu Gln Ala Gly Leu Val Tyr Gln Ala
 675 680 685
 Ile Gln Ile Asn Ile Asn Leu Tyr Asn Trp Glu Arg Ala Leu Glu Leu
 690 695 700
 Ala Val Lys Tyr Lys Thr His Val Asp Thr Val Leu Ala Tyr Arg Gln
 705 710 715 720
 Lys Phe Leu Glu Thr Phe Gly Lys Gln Glu Thr Asn Lys Arg Tyr Leu
 725 730 735
 His Tyr Ala Glu Gly Leu Gln Ile Asp Trp Glu Lys Ile Lys Ala
 740 745 750

<210> 3225

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3225

Met Gly Leu Lys Ser His Val Leu Pro Ala Pro Asn Ser Gln Gly Gln
 1 5 10 15
 Gly Ser Leu Cys Ile Phe Val Tyr Val Thr Ser Tyr Met Asp Tyr Ile
 20 25 30
 Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly Leu Asn Lys Gln

35 40 45
 Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp Gly Trp Leu Met
 50 55 60
 Val Leu Val Gln Gln Leu His Gly Gly Arg Gly His Val Leu Asp Pro
 65 70 75 80
 Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser Gln Asp Gly Cys
 85 90 95
 Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg Arg Gly Gly Gly
 100 105 110
 Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe Tyr Gln Lys Val
 115 120 125
 Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro Leu His Ile Phe
 130 135 140
 Thr
 145

<210> 3226

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3226

Met Ala Phe Gly Glu Pro Pro Ser Gly His Ser Thr Arg His Arg Thr
 1 5 10 15
 Leu His Gly Leu Ser Phe His Thr Ala Met Gly Met Ala Trp Ser Leu
 20 25 30
 His Tyr Gln Gly Gln Gly Gly Thr Leu Cys Leu Val Gly Val Ser Thr
 35 40 45
 Pro Ser His Asp Lys Ala Val Leu Gln Gly Leu Pro His Phe Ser Val
 50 55 60
 Asn Leu Gly Val Gln Pro Ser Ala Leu Ala Gly Arg Arg Gly Asp Ala
 65 70 75 80
 Ser Cys Pro Ser Ser Trp Arg Ser Ala Asp Pro Thr Val Ser Pro Asn
 85 90 95
 Leu Gly Ala Pro Gly Gly Pro Asn Ala Ile Asp Ala Leu His Gly Glu

	100		105		110										
Gln	Leu	Gly	Leu	Phe	Leu	Arg	Thr	Lys	Met	Gly	Arg	Asp	Pro	Lys	Asp
	115		120		125										
Val	His	Gly	Leu	Thr	Pro	Ala	Leu	Cys	Gly	Pro	Cys	Leu	Ala	Gly	Leu
	130		135		140										
Pro	Ser	Ser	His	Ser	Pro	Gln	Phe	Ser	Cys	Asn	Thr	Ala	Pro	Leu	Lys
145			150		155									160	
Met	Leu	Ser													

<210> 3227

<211> 390

<212> PRT

<213> Homo sapiens

<400> 3227

Met	Leu	Ser	Phe	Ser	Arg	Asp	Arg	Leu	Pro	Ser	Gly	Arg	Arg	Val	Ser
1			5					10						15	
Gly	Lys	Cys	Pro	Pro	Pro	Pro	Leu	Gly	Met	Ala	Val	Gly	Arg	Gly	Gly
			20					25						30	
Ser	Gly	Cys	Pro	Glu	Glu	Gly	Ser	Gly	Arg	Lys	Leu	Glu	Leu	Leu	Glu
		35					40						45		
Ser	Gln	Leu	Pro	Ala	Glu	Arg	Ala	Arg	Glu	Glu	Ala	Gly	Pro	Ser	Val
	50					55							60		
Arg	Arg	Pro	Arg	Asp	Lys	Leu	His	Lys	Pro	Lys	Ala	Thr	Gln	Thr	Glu
65				70					75					80	
Val	Lys	Pro	Ser	Val	Arg	Phe	Asn	Leu	Arg	Thr	Ser	Lys	Asp	Pro	Glu
			85						90					95	
His	Glu	Gly	Cys	Tyr	Leu	Ser	Val	Gly	His	Ser	Gln	Pro	Leu	Glu	Asp
			100						105					110	
Cys	Ser	Phe	Asn	Met	Thr	Ala	Lys	Thr	Phe	Phe	Ile	Ile	His	Gly	Trp
		115						120						125	
Thr	Met	Ser	Gly	Ile	Phe	Glu	Asn	Trp	Leu	His	Lys	Leu	Val	Ser	Ala
	130							135						140	
Leu	His	Thr	Arg	Glu	Lys	Asp	Ala	Asn	Val	Val	Val	Val	Asp	Trp	Leu

145	150	155	160												
Pro	Leu	Ala	His	Gln	Leu	Tyr	Thr	Asp	Ala	Val	Asn	Asn	Thr	Arg	Val
	165	170	175												
Val	Gly	His	Ser	Ile	Ala	Arg	Met	Leu	Asp	Trp	Leu	Gln	Glu	Lys	Asp
	180	185	190												
Asp	Phe	Ser	Leu	Gly	Asn	Val	His	Leu	Ile	Gly	Tyr	Ser	Leu	Gly	Ala
	195	200	205												
His	Val	Ala	Gly	Tyr	Ala	Gly	Asn	Phe	Val	Lys	Gly	Thr	Val	Gly	Arg
	210	215	220												
Ile	Thr	Gly	Leu	Asp	Pro	Ala	Gly	Pro	Met	Phe	Glu	Gly	Ala	Asp	Ile
225		230		235		240									
His	Lys	Arg	Leu	Ser	Pro	Asp	Asp	Ala	Asp	Phe	Val	Asp	Val	Leu	His
	245	250	255												
Thr	Tyr	Thr	Arg	Ser	Phe	Gly	Leu	Ser	Ile	Gly	Ile	Gln	Met	Pro	Val
	260	265	270												
Gly	His	Ile	Asp	Ile	Tyr	Pro	Asn	Gly	Gly	Asp	Phe	Gln	Pro	Gly	Cys
	275	280	285												
Gly	Leu	Asn	Asp	Val	Leu	Gly	Ser	Ile	Ala	Tyr	Gly	Thr	Ile	Thr	Glu
	290	295	300												
Val	Val	Lys	Cys	Glu	His	Glu	Arg	Ala	Val	His	Leu	Phe	Val	Asp	Ser
305		310		315		320									
Leu	Val	Asn	Gln	Asp	Lys	Pro	Ser	Phe	Ala	Phe	Gln	Cys	Thr	Asp	Ser
	325	330	335												
Asn	Arg	Phe	Lys	Lys	Gly	Ile	Cys	Leu	Ser	Cys	Arg	Lys	Asn	Arg	Cys
	340	345	350												
Asn	Ser	Ile	Gly	Tyr	Asn	Ala	Lys	Lys	Met	Arg	Asn	Lys	Arg	Asn	Ser
	355	360	365												
Lys	Met	Tyr	Leu	Lys	Thr	Arg	Ala	Gly	Met	Pro	Phe	Arg	Gly	Asn	Leu
	370	375	380												
Gln	Ser	Leu	Glu	Cys	Pro										
385		390													

<210> 3228

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3228

```

Met Val Ser Cys Leu Val Glu Gly Leu Lys Lys Ala Ala Tyr Lys Val
  1              5              10              15
Val Asn Tyr Asp Lys Pro Lys Glu Ala Thr Gln Gly Lys Asp Glu Asn
      20              25              30
Pro Ala Gln Phe Met Ala Arg Leu Val Ala Thr Leu Arg Arg Phe Thr
      35              40              45
Ala Leu Asp Pro Glu Gly Pro Glu Gly Cys Leu Ile Leu Asn Met His
      50              55              60
Phe Ile Ile Gln Ser Ala Pro Asp Ile Arg Lys Lys Phe Gln Lys Leu
      65              70              75              80
Asp Ser Ser Pro Gln Thr Pro Gln Gln Asp Leu Ile Asn Leu Ala Phe
      85              90              95
Lys Val Phe Asn Asn Arg Glu Glu Thr Ala Lys
      100              105

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<210> 3229

<211> 277

<212> PRT

<213> Homo sapiens

<400> 3229

```

Met Ser Arg Glu Phe Arg Gly His Arg Asn Cys Val Leu Thr Leu Ala
  1              5              10              15
Tyr Ser Ala Pro Trp Asp Leu Pro Ser Thr Pro Cys Ala Glu Glu Ala
      20              25              30
Ala Ala Gly Gly Leu Leu Val Thr Gly Ser Thr Asp Gly Thr Ala Lys
      35              40              45
Val Trp Gln Val Ala Ser Gly Cys Cys His Gln Thr Leu Arg Gly His
      50              55              60
Thr Gly Ala Val Leu Cys Leu Val Leu Asp Thr Pro Gly His Thr Ala
      65              70              75              80

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Phe Thr Gly Ser Thr Asp Ala Thr Ile Arg Ala Trp Asp Ile Leu Ser
 85 90 95
 Gly Glu Gln Leu Arg Val Phe Arg Glu His Arg Gly Ser Val Ile Cys
 100 105 110
 Leu Glu Cys Ser Arg Ala Ala Gly Thr Leu Ala Pro Gly Pro Ser Thr
 115 120 125
 Arg Ser Leu Glu Ser Cys Gly Gly Cys Ser Gly Ala Thr His Ser Ser
 130 135 140
 Ser Thr Ala Ser Arg Cys Thr Ala Arg Cys Ser Thr Pro Pro Arg Thr
 145 150 155 160
 Thr Ala Pro Cys Ala Ser Gly Thr Cys Ala Gly Ser Glu Val Pro Arg
 165 170 175
 Gly Pro Leu Arg Pro Arg Ala Ala Ser Arg Gly Ser Ser Ala Thr Arg
 180 185 190
 Trp Ala Ala Pro Pro Arg Pro Cys Ser Arg Pro Asp Pro Ala Gly Pro
 195 200 205
 Leu Gln Thr Pro Ala Gln Thr Pro Ser Gly Ser Gln Ser Ala Pro Pro
 210 215 220
 Cys Tyr Pro Arg Trp Trp Arg Pro Met Ala Gly Glu Gly Arg Gly Ala
 225 230 235 240
 Arg Lys Pro Gly Arg Glu Glu Ser Pro Ser Gln Ala Ser Gly Phe Ser
 245 250 255
 Leu Val Ala Arg Arg Arg Trp Glu Arg Glu Cys Ser Pro Trp Gly Pro
 260 265 270
 Pro Pro Phe Pro Phe
 275

<210> 3230

<211> 586

<212> PRT

<213> Homo sapiens

<400> 3230

Met Lys Tyr Ile Leu Val Thr Gly Gly Val Ile Ser Gly Ile Gly Lys

1	5	10	15
Gly Ile Ile Ala Ser Ser Ile Gly Thr Ile Leu Lys Ser Cys Gly Leu			
20	25	30	
Arg Val Thr Ala Ile Lys Ile Asp Pro Tyr Ile Asn Ile Asp Ala Gly			
35	40	45	
Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val Leu Asn Asp Gly			
50	55	60	
Gly Glu Val Asp Leu Asp Leu Gly Asn Tyr Glu Arg Phe Leu Asp Ile			
65	70	75	80
Asn Leu Tyr Lys Asp Asn Asn Ile Thr Thr Gly Lys Ile Tyr Gln His			
85	90	95	
Val Ile Asn Lys Glu Arg Arg Gly Asp Tyr Leu Gly Lys Thr Val Gln			
100	105	110	
Val Val Pro His Ile Thr Asp Ala Val Gln Glu Trp Val Met Asn Gln			
115	120	125	
Ala Lys Val Pro Val Asp Gly Asn Lys Glu Glu Pro Gln Ile Cys Val			
130	135	140	
Ile Glu Leu Gly Gly Thr Ile Gly Asp Ile Glu Gly Met Pro Phe Val			
145	150	155	160
Glu Ala Phe Arg Gln Phe Gln Phe Lys Ala Lys Arg Glu Asn Phe Cys			
165	170	175	
Asn Ile His Val Ser Leu Val Pro Gln Leu Ser Ala Thr Gly Glu Gln			
180	185	190	
Lys Thr Lys Pro Thr Gln Asn Ser Val Arg Ala Leu Arg Gly Leu Gly			
195	200	205	
Leu Ser Pro Asp Leu Ile Val Cys Arg Ser Ser Thr Pro Ile Glu Met			
210	215	220	
Ala Val Lys Glu Lys Ile Ser Met Phe Cys His Val Asn Pro Glu Gln			
225	230	235	240
Val Ile Cys Ile His Asp Val Ser Ser Thr Tyr Arg Val Pro Val Leu			
245	250	255	
Leu Glu Glu Gln Ser Ile Val Lys Tyr Phe Lys Glu Arg Leu His Leu			
260	265	270	
Pro Ile Gly Asp Ser Ala Ser Asn Leu Leu Phe Lys Trp Arg Asn Met			
275	280	285	
Ala Asp Arg Tyr Glu Arg Leu Gln Lys Ile Cys Ser Ile Ala Leu Val			

290	295	300	
Gly Lys Tyr Thr Lys	Leu Arg Asp Cys Tyr	Ala Ser Val Phe Lys	Ala
305	310	315	320
Leu Glu His Ser Ala	Leu Ala Ile Asn His	Lys Leu Asn Leu	Met Tyr
	325	330	335
Ile Asp Ser Ile Asp	Leu Glu Lys Ile Thr	Glu Thr Glu Asp	Pro Val
	340	345	350
Lys Phe His Glu Ala	Trp Gln Lys Leu Cys	Lys Ala Asp Gly	Ile Leu
	355	360	365
Val Pro Gly Gly Phe	Gly Ile Arg Gly Thr	Leu Gly Lys Leu	Gln Ala
370	375	380	
Ile Ser Trp Ala Arg	Thr Lys Lys Ile Pro	Phe Leu Gly Val	Cys Leu
385	390	395	400
Gly Met Gln Leu Ala	Val Ile Glu Phe Ala	Arg Asn Cys Leu	Asn Leu
	405	410	415
Lys Asp Ala Asp Ser	Thr Glu Phe Arg Pro	Asn Ala Pro Val	Pro Leu
	420	425	430
Val Ile Asp Met Pro	Glu His Asn Pro Gly	Asn Leu Gly Gly	Thr Met
	435	440	445
Arg Leu Gly Ile Arg	Arg Thr Val Phe Lys	Thr Glu Asn Ser	Ile Leu
450	455	460	
Arg Lys Leu Tyr Gly	Asp Val Pro Phe Ile	Glu Glu Arg His	Arg His
465	470	475	480
Arg Phe Glu Val Asn	Pro Asn Leu Ile Lys	Gln Phe Glu Gln	Asn Asp
	485	490	495
Leu Ser Phe Val Gly	Gln Asp Val Asp Gly	Asp Arg Met Glu	Ile Ile
	500	505	510
Glu Leu Ala Asn His	Pro Tyr Phe Val Gly	Val Gln Phe His	Pro Glu
	515	520	525
Phe Ser Ser Arg Pro	Met Lys Pro Ser Pro	Pro Tyr Leu Gly	Leu Leu
530	535	540	
Leu Ala Ala Thr Gly	Asn Leu Asn Ala Tyr	Leu Gln Gln Gly	Cys Lys
545	550	555	560
Leu Ser Ser Ser Asp	Arg Tyr Ser Asp Ala	Ser Asp Asp Ser	Phe Ser
	565	570	575
Glu Pro Arg Ile Ala	Glu Leu Glu Ile	Ser	

580

585

<210> 3231

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3231

Met Asn Ile Ile Thr Ser Pro Leu Pro Gly Ser Pro Asn Ser Leu Arg
 1 5 10 15
 Gly Ser Thr Phe Met Leu Gly Ser Ser Leu Glu Ala Ser Leu Gly Lys
 20 25 30
 Leu Gln Ser Gln Pro Ser Thr Ser Thr Cys Ser Pro Ser Pro Val Lys
 35 40 45
 Val Asn Lys Val Arg Val Ser Leu Glu Ala Arg Arg Leu Arg Val Gly
 50 55 60
 Val Glu Arg Ser His Ser Gln Ser Cys Leu Val Tyr Leu Ser Val Met
 65 70 75 80
 Lys Lys Arg Glu Glu Thr Asn Lys Met Glu Arg Val Glu Ala Arg Pro
 85 90 95
 Ser Thr Cys Phe Leu Gly Glu Leu Gly His Ser Gly Gln His Arg Arg
 100 105 110
 Val Pro Gly Leu Lys Lys Ile Asp His Gln Gln Gly Gln Gly Val Val
 115 120 125
 Thr Glu Lys Gly Ala Thr Pro Trp Val Asn Lys Gln
 130 135 140

<210> 3232

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3232

Met Phe Phe Ile Phe Gln Lys Glu Lys Ala Leu Lys Ile Phe Leu Lys

1	5	10	15
Cys Asp Cys His Leu Phe Ser Thr Lys Asn Phe Leu Arg Phe Phe Lys			
	20	25	30
Arg Lys Ile Glu Ile Leu Ser Leu Pro Arg Phe Pro Ser Pro Pro Val			
	35	40	45
Phe Lys Met Lys Ala Gln Val Gln Glu Trp Gly Ala Gln Val Pro Gly			
	50	55	60
Val Tyr Thr Pro Pro Thr Gln Leu Arg Pro Ala Leu Ala Glu Gly Asp			
65	70	75	80
Ala Val Leu Ser Ser Gln Pro Arg Glu Ala Ser Phe Ser Thr Ser Asn			
	85	90	95
Pro Thr Ala Met Asn Val Asn Ser Leu Gly Cys Phe Gln Lys Gln Glu			
	100	105	110
Ser Ala			

<210> 3233

<211> 454

<212> PRT

<213> Homo sapiens

<400> 3233

Met Glu Ile His His Phe Leu Leu Lys Lys Arg Lys Gln Ala Asn Leu			
1	5	10	15
Ala Gln Leu Leu Arg Asp Ser Gln Asp Arg Asn Lys His Leu Gly Glu			
	20	25	30
Glu Ile Lys Glu Leu Gln Gln Arg Leu Gly Glu Val Gln Gly Asp Asn			
	35	40	45
Lys Leu Leu Arg Met Thr Ile Ala Lys Gln Arg Leu Gly Asp Glu Ala			
	50	55	60
Ile Gly Val Arg His Phe Ala Ala His Glu Arg Glu Asp Leu Val Gln			
65	70	75	80
Gln Leu Glu Arg Ala Lys Glu Gln Ile Glu Ser Leu Glu His Asp Leu			
	85	90	95
Gln Ala Ser Val Asp Glu Leu Gln Asp Val Lys Glu Glu Arg Ser Ser			

100	105	110
Tyr Gln Asp Lys Val Glu Arg Leu Asn Gln Glu Leu Asn His Ile Leu		
115	120	125
Ser Gly His Glu Asn Arg Ile Ile Asp Val Asp Ala Leu Cys Met Glu		
130	135	140
Asn Arg Tyr Leu Gln Glu Arg Leu Lys Gln Leu His Glu Glu Val Asn		
145	150	155
Leu Leu Lys Ser Asn Ile Ala Lys Tyr Lys Asn Ala Leu Glu Arg Arg		
165	170	175
Lys Asn Ser Lys Gly Gln Gly Lys Ser Ser Ser Ser Ala Leu Thr Gly		
180	185	190
Val Leu Ser Ala Lys Gln Val Gln Asp Leu Leu Ser Glu Asp His Gly		
195	200	205
Cys Ser Leu Pro Ala Thr Pro Gln Ser Ile Ser Asp Leu Lys Ser Leu		
210	215	220
Ala Thr Ala Leu Leu Glu Thr Ile His Glu Lys Asn Met Val Ile Gln		
225	230	235
His Gln Arg Gln Thr Asn Lys Ile Leu Gly Asn Arg Val Ala Glu Leu		
245	250	255
Glu Lys Lys Leu Arg Thr Leu Glu Val Ser Gly Leu Trp Ser Leu Pro		
260	265	270
Gly Gly Lys Asp Thr Ile Leu Phe Ser Asp Pro Thr Leu Pro Ser Gly		
275	280	285
Gln Arg Ser Arg Ser Pro Leu Leu Lys Phe Val Glu Gln Pro Thr Glu		
290	295	300
Asn Lys Ala Asp Pro Lys Asp Gly Glu Ala Gln Lys Gln Glu Glu Asp		
305	310	315
Glu Ser Cys Ala Ala Ala Glu Ala Leu Thr Ala Pro Glu Asp Ala Gly		
325	330	335
Arg Pro Ala Val Asn Ser Pro Ala Asn Gln Ser Arg Gly Asn Gln Cys		
340	345	350
Lys Leu Phe His Pro Ser Leu Pro Gln Leu Pro Ser Glu Glu Glu Val		
355	360	365
Asn Ser Leu Gly Arg Glu Ile Ile Lys Leu Thr Lys Glu Gln Ala Ala		
370	375	380
Ala Glu Leu Glu Glu Val Arg Arg Glu Ser Pro Ile Glu Gly Gln Arg		

385 390 395 400
 Ser Glu Thr Gly Pro Ala Pro Pro Gly Leu Ala Ile Gln Gly Glu Leu
 405 410 415
 Pro Lys Ser His Leu Asp Ser Phe Glu Ala Ser Arg Pro Ala Ala Lys
 420 425 430
 Ala Ser Thr Pro Glu Asp Gly Lys Gly Ile Pro Glu Gly Gly Gly Met
 435 440 445

 Arg Ser Thr Val Lys Thr
 450

<210> 3234

<211> 278

<212> PRT

<213> Homo sapiens

<400> 3234

Met Thr Asp Leu Asn Lys His Ile Lys Gln Ala Gln Thr Gln Arg Lys
 1 5 10 15
 Gln Leu Leu Glu Glu Ser Arg Glu Leu His Arg Glu Lys Leu Leu Val
 20 25 30
 Gln Ala Glu Asn Arg Phe Phe Leu Glu Tyr Leu Thr Asn Lys Thr Glu
 35 40 45

 Glu Tyr Thr Glu Gln Pro Glu Lys Val Trp Asn Ser Tyr Leu Gln Lys
 50 55 60
 Ser Gly Glu Ile Glu Arg Arg Arg Gln Glu Ser Ala Ser Arg Tyr Ala
 65 70 75 80
 Glu Gln Ile Ser Val Leu Lys Thr Ala Leu Leu Gln Lys Glu Asn Ile
 85 90 95
 Gln Ser Ser Leu Lys Arg Lys Leu Gln Ala Met Arg Asp Ile Ala Ile
 100 105 110
 Leu Lys Glu Lys Gln Glu Lys Glu Ile Gln Thr Leu Gln Glu Glu Thr
 115 120 125
 Lys Lys Val Gln Ala Glu Thr Ala Ser Lys Thr Arg Glu Val Gln Ala

130 135 140
 Gln Leu Leu Gln Glu Lys Arg Leu Leu Glu Lys Gln Leu Ser Glu Pro
 145 150 155 160
 Asp Arg Arg Leu Leu Gly Lys Arg Lys Arg Arg Glu Leu Asn Met Lys
 165 170 175
 Ala Gln Ala Leu Lys Leu Ala Ala Lys Arg Phe Ile Phe Glu Tyr Ser
 180 185 190
 Cys Gly Ile Asn Arg Glu Asn Gln Gln Phe Lys Lys Glu Leu Leu Gln
 195 200 205
 Leu Ile Glu Gln Ala Gln Lys Leu Thr Ala Thr Gln Ser His Leu Glu
 210 215 220
 Asn Arg Lys Gln Gln Leu Gln Gln Glu Gln Trp Tyr Leu Glu Ser Leu
 225 230 235 240
 Ile Gln Ala Arg Gln Arg Leu Gln Gly Ser His Asn Gln Cys Leu Asn
 245 250 255
 Arg Gln Asp Val Pro Lys Thr Thr Pro Ser Leu Pro Gln Gly Thr Lys
 260 265 270
 Ser Arg Ile Asn Pro Lys
 275

<210> 3235

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3235

Met Arg His Arg Ala Gln Gln Thr Gln Lys Phe Lys Ala Ala Tyr Ala
 1 5 10 15
 Tyr Asn Leu Met Gly Ser Leu Ser His Glu Phe Arg Tyr Ser Phe Val
 20 25 30
 Arg Val Leu Trp Phe Arg Ile Ser His Lys Ala Val Ile Lys Leu Leu
 35 40 45
 Ala Arg Thr Gly Val Ser Ser Glu Val Gln Met Glu Glu Asp Ser Leu
 50 55 60
 Leu Gln Arg Thr Asp Gly Gly Thr Gln Phe Leu Glu Val Gly Gln Thr

65 70 75 80
 Ala Ala Ala Leu Cys Ser Leu Pro Cys Gly Pro Leu Arg Tyr Asp His
 85 90 95
 Leu Leu Cys Glu Ser Val Gln Ser Ser Arg Ala Thr Glu Arg Ala Cys
 100 105 110

<210> 3236

<211> 655

<212> PRT

<213> Homo sapiens

<400> 3236

Met Pro Leu Lys Trp Lys Thr Ser Ser Pro Ala Ile Trp Arg Phe Pro
 1 5 10 15
 Val Pro Val Pro Lys Thr Ser Arg Ser Thr Pro Leu Ser Pro Ala Tyr
 20 25 30
 Ile Ser Leu Val Glu Glu Glu Asp Gln His Met Lys Leu Ser Leu Gly
 35 40 45
 Gly Ser Glu Met Gly Leu Ser Ser His Leu Gln Ser Ser Lys Ala Gly
 50 55 60
 Pro Thr Arg Ile Phe Thr Ser Asn Thr His Ser Ser Val Val Leu Gln
 65 70 75 80
 Gly Phe Asp Gln Leu Arg Leu Glu Gly Leu Leu Cys Asp Val Thr Leu
 85 90 95
 Met Pro Gly Asp Thr Asp Asp Ala Phe Pro Val His Arg Val Met Met
 100 105 110
 Ala Ser Ala Ser Asp Tyr Phe Lys Ala Met Phe Thr Gly Gly Met Lys
 115 120 125
 Glu Gln Asp Leu Met Cys Ile Lys Leu His Gly Val Ser Lys Val Gly
 130 135 140
 Leu Arg Lys Ile Ile Asp Phe Ile Tyr Thr Ala Lys Leu Ser Leu Asn
 145 150 155 160
 Met Asp Asn Leu Gln Asp Thr Leu Glu Ala Ala Ser Phe Leu Gln Ile
 165 170 175
 Leu Pro Val Leu Asp Phe Cys Lys Val Phe Leu Ile Ser Gly Val Thr

180	185	190
Leu Asp Asn Cys Val Glu Val	Gly Arg Ile Ala Asn Thr Tyr Asn Leu	
195	200	205
Thr Glu Val Asp Lys Tyr Val	Asn Ser Phe Val Leu Lys Asn Phe Pro	
210	215	220
Ala Leu Leu Ser Thr Gly Glu Phe	Leu Lys Leu Pro Phe Glu Arg Leu	
225	230	235
Ala Phe Val Leu Ser Ser Asn Ser	Leu Lys His Cys Thr Glu Leu Glu	
245	250	255
Leu Phe Lys Ala Thr Cys Arg Trp	Leu Arg Leu Glu Glu Pro Arg Met	
260	265	270
Asp Phe Ala Ala Lys Leu Met	Lys Asn Ile Arg Phe Pro Leu Met Thr	
275	280	285
Pro Gln Glu Leu Ile Asn Tyr Val	Gln Thr Val Asp Phe Met Arg Thr	
290	295	300
Asp Asn Thr Cys Val Asn Leu Leu	Leu Glu Ala Ser Asn Tyr Gln Met	
305	310	315
Met Pro Tyr Met Gln Pro Val Met	Gln Ser Asp Arg Thr Ala Ile Arg	
325	330	335
Ser Asp Thr Thr His Leu Val Thr	Leu Gly Gly Val Leu Arg Gln Arg	
340	345	350
Leu Val Val Ser Lys Glu Leu Arg	Met Tyr Asp Glu Lys Ala His Glu	
355	360	365
Trp Lys Ser Leu Ala Pro Met Asp	Ala Pro Arg Tyr Gln His Gly Ile	
370	375	380
Ala Val Ile Gly Asn Phe Leu Tyr	Val Val Gly Gly Gln Ser Asn Tyr	
385	390	395
Asp Thr Lys Gly Lys Thr Ala Val	Asp Thr Val Phe Arg Phe Asp Pro	
405	410	415
Arg Tyr Asn Lys Trp Met Gln Val	Ala Ser Leu Asn Glu Lys Arg Thr	
420	425	430
Phe Phe His Leu Ser Ala Leu Lys	Gly Tyr Leu Tyr Ala Val Gly Gly	
435	440	445
Arg Asn Ala Ala Gly Glu Leu Pro	Thr Val Glu Cys Tyr Asn Pro Arg	
450	455	460
Thr Asn Glu Trp Thr Tyr Val Ala	Lys Met Ser Glu Pro His Tyr Gly	

465 470 475 480
 His Ala Gly Thr Val Tyr Gly Gly Val Met Tyr Ile Ser Gly Gly Ile
 485 490 495
 Thr His Asp Thr Phe Gln Lys Glu Leu Met Cys Phe Asp Pro Asp Thr
 500 505 510
 Asp Lys Trp Ile Gln Lys Ala Pro Met Thr Thr Val Arg Gly Leu His
 515 520 525
 Cys Met Cys Thr Val Gly Glu Arg Leu Tyr Val Ile Gly Gly Asn His
 530 535 540
 Phe Arg Gly Thr Ser Asp Tyr Asp Asp Val Leu Ser Cys Glu Tyr Tyr
 545 550 555 560
 Ser Pro Ile Leu Asp Gln Trp Thr Pro Ile Ala Ala Met Leu Arg Gly
 565 570 575
 Gln Ser Asp Val Gly Val Ala Val Phe Glu Asn Lys Ile Tyr Val Val
 580 585 590
 Gly Gly Tyr Ser Trp Asn Asn Arg Cys Met Val Glu Ile Val Gln Lys
 595 600 605
 Tyr Asp Pro Asp Lys Asp Glu Trp His Lys Val Phe Asp Leu Pro Glu
 610 615 620
 Ser Leu Gly Gly Ile Arg Ala Cys Thr Leu Thr Val Phe Pro Pro Glu
 625 630 635 640
 Glu Thr Thr Pro Ser Pro Ser Arg Glu Ser Pro Leu Ser Ala Pro
 645 650 655

<210> 3237

<211> 608

<212> PRT

<213> Homo sapiens

<400> 3237

Met Leu Leu Leu Glu Thr Gly Met Lys Glu Glu Gly Leu Phe Arg Ile
 1 5 10 15

 Gly Ala Gly Ala Ser Lys Leu Lys Lys Leu Lys Ala Ala Leu Asp Cys
 20 25 30

Ser Thr Ser His Leu Asp Glu Phe Tyr Ser Asp Pro His Ala Val Ala
 35 40 45
 Gly Ala Leu Lys Ser Tyr Leu Arg Glu Leu Pro Glu Pro Leu Met Thr
 50 55 60
 Phe Asn Leu Tyr Glu Glu Trp Thr Gln Val Ala Ser Val Gln Asp Gln
 65 70 75 80
 Asp Lys Lys Leu Gln Asp Leu Trp Arg Thr Cys Gln Lys Leu Pro Pro
 85 90 95
 Gln Asn Phe Val Asn Phe Arg Tyr Leu Ile Lys Phe Leu Ala Lys Leu
 100 105 110
 Ala Gln Thr Ser Asp Val Asn Lys Met Thr Pro Ser Asn Ile Ala Ile
 115 120 125
 Val Leu Gly Pro Asn Leu Leu Trp Ala Arg Asn Glu Gly Thr Leu Ala
 130 135 140
 Glu Met Ala Ala Ala Thr Ser Val His Val Val Ala Val Ile Glu Pro
 145 150 155 160
 Ile Ile Gln His Ala Asp Trp Phe Phe Pro Glu Glu Val Glu Phe Asn
 165 170 175
 Val Ser Glu Ala Phe Val Pro Leu Thr Thr Pro Ser Ser Asn His Ser
 180 185 190
 Phe His Thr Gly Asn Asp Ser Asp Ser Gly Thr Leu Glu Arg Lys Arg
 195 200 205
 Pro Ala Ser Met Ala Val Met Glu Gly Asp Leu Val Lys Lys Glu Ser
 210 215 220
 Phe Gly Val Lys Leu Met Asp Phe Gln Ala His Arg Arg Gly Gly Thr
 225 230 235 240
 Leu Asn Arg Lys His Ile Ser Pro Ala Phe Gln Pro Pro Leu Pro Pro
 245 250 255
 Thr Asp Gly Ser Thr Val Val Pro Ala Gly Pro Glu Pro Pro Pro Gln
 260 265 270
 Ser Ser Arg Ala Glu Ser Ser Ser Gly Gly Gly Thr Val Pro Ser Ser
 275 280 285
 Ala Gly Ile Leu Glu Gln Gly Pro Ser Pro Gly Asp Gly Cys Pro Pro
 290 295 300
 Lys Pro Lys Asp Pro Val Ser Ala Ala Val Pro Ala Pro Gly Arg Asn
 305 310 315 320

Asn Ser Gln Ile Ala Ser Gly Gln Asn Gln Pro Gln Ala Ala Ala Gly
 325 330 335
 Ser His Gln Leu Ser Met Gly Gln Pro His Asn Ala Ala Gly Pro Ser
 340 345 350
 Pro His Thr Leu Arg Arg Ala Val Lys Lys Pro Ala Pro Ala Pro Pro
 355 360 365
 Lys Pro Gly Asn Pro Pro Pro Gly His Pro Gly Gly Gln Ser Ser Ser
 370 375 380
 Gly Thr Ser Gln His Pro Pro Ser Leu Ser Pro Lys Pro Pro Thr Arg
 385 390 395 400
 Ser Pro Ser Pro Pro Thr Gln His Thr Gly Gln Pro Pro Gly Gln Pro
 405 410 415
 Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser Ser Ser Leu
 420 425 430
 Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln Pro Pro Thr Gln
 435 440 445
 Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn
 450 455 460
 Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr
 465 470 475 480
 Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln
 485 490 495
 Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu
 500 505 510
 Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro
 515 520 525
 Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro Gln Pro Pro Gly
 530 535 540
 Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala
 545 550 555 560
 Ser Lys Ile Val Thr Asp Ser Asn Ser Arg Val Ser Glu Pro His Arg
 565 570 575
 Ser Ile Phe Pro Glu Met His Ser Asp Ser Ala Ser Lys Asp Val Pro
 580 585 590
 Gly Arg Ile Leu Leu Asp Ile Asp Asn Asp Thr Glu Ser Thr Ala Leu
 595 600 605

<210> 3238

<211> 510

<212> PRT

<213> Homo sapiens

<400> 3238

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Met Val Ala Arg Val Gly Leu Leu Leu Arg Ala Leu Gln Leu Leu Leu
 1             5             10             15
Trp Gly His Leu Asp Ala Gln Pro Ala Glu Arg Gly Gly Gln Glu Leu
      20             25             30
Arg Lys Glu Ala Glu Ala Phe Leu Glu Lys Tyr Gly Tyr Leu Asn Glu
      35             40             45
Gln Val Pro Lys Ala Pro Thr Ser Thr Arg Phe Ser Asp Ala Ile Arg
      50             55             60
Ala Phe Gln Trp Val Ser Gln Leu Pro Val Ser Gly Val Leu Asp Arg
      65             70             75             80
Ala Thr Leu Arg Gln Met Thr Arg Pro Arg Cys Gly Val Thr Asp Thr
      85             90             95
Asn Ser Tyr Ala Ala Trp Ala Glu Arg Ile Ser Asp Leu Phe Ala Arg
      100            105            110
His Arg Thr Lys Met Arg Arg Lys Lys Arg Phe Ala Lys Gln Gly Asn
      115            120            125
Lys Trp Tyr Lys Gln His Leu Ser Tyr Arg Leu Val Asn Trp Pro Glu
      130            135            140
His Leu Pro Glu Pro Ala Val Arg Gly Ala Val Arg Ala Ala Phe Gln
      145            150            155            160
Leu Trp Ser Asn Val Ser Ala Leu Glu Phe Trp Glu Ala Pro Ala Thr
      165            170            175
Gly Pro Ala Asp Ile Arg Leu Thr Phe Phe Gln Gly Asp His Asn Asp
      180            185            190
Gly Leu Gly Asn Ala Phe Asp Gly Pro Gly Gly Ala Leu Ala His Ala
      195            200            205
Phe Leu Pro Arg Arg Gly Glu Ala His Phe Asp Gln Asp Glu Arg Trp
      210            215            220

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Ser Leu Ser Arg Arg Arg Gly Arg Asn Leu Phe Val Val Leu Ala His
 225 230 235 240
 Glu Ile Gly His Thr Leu Gly Leu Thr His Ser Pro Ala Pro Arg Ala
 245 250 255
 Leu Met Ala Pro Tyr Tyr Lys Arg Leu Gly Arg Asp Ala Leu Leu Ser
 260 265 270
 Trp Asp Asp Val Leu Ala Val Gln Ser Leu Tyr Gly Lys Pro Leu Gly
 275 280 285
 Gly Ser Val Ala Val Gln Leu Pro Gly Lys Leu Phe Thr Asp Phe Glu
 290 295 300
 Thr Trp Asp Ser Tyr Ser Pro Gln Gly Arg Arg Pro Glu Thr Gln Gly
 305 310 315 320
 Pro Lys Tyr Cys His Ser Ser Phe Asp Ala Ile Thr Val Gly Ser His
 325 330 335
 Phe Trp Glu Val Ala Ala Asp Gly Asn Val Ser Glu Pro Arg Pro Leu
 340 345 350
 Gln Glu Arg Trp Val Gly Leu Pro Pro Asn Ile Glu Ala Ala Ala Val
 355 360 365
 Ser Leu Asn Asp Gly Asp Phe Tyr Phe Phe Lys Gly Gly Arg Cys Trp
 370 375 380
 Arg Phe Arg Gly Pro Lys Pro Val Trp Gly Leu Pro Gln Leu Cys Arg
 385 390 395 400
 Ala Gly Gly Leu Pro Arg His Pro Asp Ala Ala Leu Phe Phe Pro Pro
 405 410 415
 Leu Arg Arg Leu Ile Leu Phe Lys Gly Ala Arg Tyr Tyr Val Leu Ala
 420 425 430
 Arg Gly Gly Leu Gln Val Glu Pro Tyr Tyr Pro Arg Ser Leu Gln Asp
 435 440 445
 Trp Gly Gly Ile Pro Glu Glu Val Ser Gly Ala Leu Pro Arg Pro Asp
 450 455 460
 Gly Ser Ile Ile Phe Phe Arg Asp Asp Arg Tyr Trp Arg Leu Asp Gln
 465 470 475 480
 Ala Lys Leu Gln Ala Thr Thr Ser Gly Arg Trp Ala Thr Glu Leu Pro
 485 490 495
 Trp Met Gly Cys Trp His Ala Asn Ser Gly Ser Ala Leu Phe
 500 505 510

<210> 3239

<211> 248

<212> PRT

<213> Homo sapiens

<400> 3239

```

Met Pro Arg Ile Ala Gly Asn His Leu Met Leu Glu Glu Ser Arg Thr
 1             5             10             15
Cys Ser Ser Pro Glu Leu Leu Asp Gly Val Trp Pro Cys Gln Pro Leu
          20             25             30
His Phe Gly Leu Pro Ala Ser Glu Met His Phe Gln Thr Met Leu Lys
        35             40             45
Ser Lys Leu Asn Val Leu Thr Leu Lys Lys Glu Pro Leu Pro Ala Val
        50             55             60
Ile Phe His Glu Pro Glu Ala Ile Glu Leu Cys Thr Thr Thr Pro Leu
 65             70             75             80
Met Lys Thr Arg Thr His Ser Gly Cys Lys Val Thr Tyr Leu Gly Lys
          85             90             95
Val Ser Thr Thr Gly Met Gln Phe Leu Ser Gly Cys Thr Glu Lys Pro
        100             105             110
Val Ile Glu Leu Trp Lys Lys His Thr Leu Ala Arg Glu Asp Val Phe
        115             120             125
Pro Ala Asn Ala Leu Leu Glu Ile Arg Pro Phe Gln Val Trp Leu His
        130             135             140
His Leu Asp His Lys Gly Glu Ala Thr Val His Met Asp Thr Phe Gln
 145             150             155             160
Val Ala Arg Ile Ala Tyr Cys Thr Ala Asp His Asn Val Ser Pro Asn
          165             170             175
Ile Phe Ala Trp Val Tyr Arg Glu Ile Asn Asp Asp Leu Ser Tyr Gln
        180             185             190
Met Asp Cys His Ala Val Glu Cys Glu Ser Lys Leu Glu Ala Lys Lys
        195             200             205
Leu Ala His Ala Met Met Glu Ala Phe Arg Lys Thr Phe His Ser Met
        210             215             220

```

Lys Ser Asp Gly Arg Ile His Ser Asn Ser Ser Ser Glu Glu Val Ser
225 230 235 240
Gln Glu Leu Glu Ser Asp Asp Gly
245

<210> 3240
<211> 588
<212> PRT
<213> Homo sapiens

<400> 3240																	
Met	Asp	Thr	Asn	Asp	Asp	Pro	Asp	Glu	Asp	His	Leu	Thr	Ser	Tyr	Asp		
1				5				10						15			
Ile	Gln	Leu	Ser	Ile	Gln	Glu	Ser	Ile	Glu	Ala	Ser	Lys	Thr	Ala	Leu		
			20					25					30				
Cys	Pro	Glu	Arg	Phe	Val	Pro	Leu	Ser	Ala	Gln	Asn	Arg	Lys	Leu	Val		
		35					40					45					
Glu	Ala	Ile	Lys	Gln	Gly	His	Ile	Leu	Glu	Leu	Gln	Glu	Tyr	Val	Lys		
	50					55					60						
Tyr	Lys	Tyr	Ala	Met	Asp	Glu	Ala	Asp	Glu	Lys	Gly	Trp	Phe	Pro	Leu		
65					70					75					80		
His	Glu	Ala	Val	Val	Gln	Pro	Ile	Gln	Gln	Ile	Leu	Glu	Ile	Val	Leu		
			85					90							95		
Asp	Ala	Ser	Tyr	Lys	Thr	Leu	Trp	Glu	Phe	Lys	Thr	Cys	Asp	Gly	Glu		
		100						105					110				
Thr	Pro	Leu	Thr	Leu	Ala	Val	Lys	Ala	Gly	Leu	Val	Glu	Asn	Val	Arg		
	115						120					125					
Thr	Leu	Leu	Glu	Lys	Gly	Val	Trp	Pro	Asn	Thr	Lys	Asn	Asp	Lys	Gly		
	130					135					140						
Glu	Thr	Pro	Leu	Leu	Ile	Ala	Val	Lys	Lys	Gly	Ser	Tyr	Asp	Met	Val		
145					150				155						160		
Ser	Thr	Leu	Ile	Lys	His	Asn	Thr	Ser	Leu	Asp	Gln	Pro	Cys	Val	Lys		
			165					170						175			
Arg	Trp	Ser	Ala	Met	His	Glu	Ala	Ala	Lys	Gln	Gly	Arg	Lys	Asp	Ile		
	180							185					190				

Val Ala Leu Leu Leu Lys His Gly Gly Asn Val His Leu Arg Asp Gly
 195 200 205
 Phe Gly Val Thr Pro Leu Gly Val Ala Ala Glu Tyr Gly His Cys Asp
 210 215 220
 Val Leu Glu His Leu Ile His Lys Gly Gly Asp Val Leu Ala Leu Ala
 225 230 235 240
 Asp Asp Gly Ala Ser Val Leu Phe Glu Ala Ala Gly Gly Gly Asn Pro
 245 250 255
 Asp Cys Ile Ser Leu Leu Leu Glu Tyr Gly Gly Ser Gly Asn Val Pro
 260 265 270
 Asn Arg Ala Gly His Leu Pro Ile His Arg Ala Ala Tyr Glu Gly His
 275 280 285
 Tyr Leu Ala Leu Lys Tyr Leu Ile Pro Val Thr Ser Lys Asn Ala Ile
 290 295 300
 Arg Lys Ser Gly Leu Thr Pro Ile His Ser Ala Ala Asp Gly Gln Asn
 305 310 315 320
 Ala Gln Cys Leu Glu Leu Leu Ile Glu Asn Gly Phe Asp Val Asn Thr
 325 330 335
 Leu Leu Ala Asp His Ile Ser Gln Ser Cys Asp Asp Glu Arg Lys Thr
 340 345 350
 Ala Leu Tyr Phe Ala Val Ser Asn Asn Asp Val His Cys Thr Glu Val
 355 360 365
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Asp Pro Leu Asn Cys Leu
 370 375 380
 Leu Val Ala Val Arg Ala Asn Asn Tyr Glu Ile Val Arg Leu Leu Leu
 385 390 395 400
 Ser His Gly Ala Asn Val Asn Cys Tyr Phe Met His Val Asn Asp Thr
 405 410 415
 Arg Phe Pro Ser Val Ile Gln Tyr Ala Leu Asn Asp Glu Val Met Leu
 420 425 430
 Arg Leu Leu Leu Asn Asn Gly Tyr Gln Val Glu Met Cys Phe Asp Cys
 435 440 445
 Met His Gly Asp Ile Phe Gly Asn Ser Phe Val Trp Ser Glu Ile Gln
 450 455 460
 Glu Glu Val Leu Pro Gly Trp Thr Ser Cys Val Ile Lys Asp Asn Pro
 465 470 475 480

Phe Cys Glu Phe Ile Thr Val Pro Trp Met Lys His Leu Val Gly Arg
 485 490 495
 Val Thr Arg Val Leu Ile Asp Tyr Met Asp Tyr Val Pro Leu Cys Ala
 500 505 510
 Lys Leu Lys Ser Ala Leu Glu Val Gln Arg Glu Trp Pro Glu Ile Arg
 515 520 525
 Gln Ile Leu Glu Asn Pro Cys Ser Leu Lys His Leu Cys Arg Leu Lys
 530 535 540
 Ile Arg Arg Leu Met Gly Leu Gln Lys Leu Cys Gln Pro Ala Ser Val
 545 550 555 560
 Glu Lys Leu Pro Leu Pro Pro Ala Ile Gln Arg Tyr Ile Leu Phe Lys
 565 570 575
 Glu Tyr Asp Leu Tyr Gly Gln Glu Leu Lys Leu Thr
 580 585

<210> 3241

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3241

Met Gln Gly Leu Ser Val Cys Leu Ser Phe Ser Leu Arg Asn Glu Asn
 1 5 10 15
 Pro Asp Leu Arg Ala Val Gln Leu Arg Ala His Tyr Leu Pro Ser Pro
 20 25 30
 Ser Arg Pro Gln Pro His His Pro Thr Cys Pro Leu Pro Pro Thr Ser
 35 40 45
 Ser Gly Ala Phe Ser Arg Cys Leu Met Val Gly Gly Phe Leu Met Gly
 50 55 60
 Gln Glu Arg Arg Ala Ser Ser Cys Asp Ser Thr Val Trp Val Lys Cys
 65 70 75 80
 Pro Val Arg Ala Trp Cys Gly Glu Leu Ala Ser Glu Glu Pro Leu Val
 85 90 95
 Gly Lys Arg Glu Val Gly
 100

<210> 3242

<211> 192

<212> PRT

<213> Homo sapiens

<400> 3242

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Met Glu Arg Gln Pro Gly Pro Val Arg Gly Lys Leu Gln Ile Phe Gln
 1              5              10              15
Lys Thr Glu Lys Asp Pro Gln Ala Arg Ala Gly Ser Pro Val Gln Glu
              20              25              30
Tyr His Thr Ala Leu Val Ala Gly Asp Leu Asp His Leu Lys Pro Leu
              35              40              45
Met Asp Gln Phe Phe Gln Asp Ala Asn Val Val Phe Glu Ile Asn Lys
              50              55              60
Asp Glu Met Glu Trp Gln Val Lys Ser Pro Ala Thr Phe Gly Leu Ser
65              70              75              80
Gly Leu Trp Thr Leu Glu Tyr Lys Arg Glu Leu Thr Thr Pro Leu Cys
              85              90              95
Ile Ala Ala Ala His Gly His Thr Ala Cys Val Arg His Leu Leu Gly
              100             105             110
Arg Gly Ala Asp Pro Asp Ala Ser Pro Ala Gly Pro Arg Val Pro Asp
              115             120             125
Arg Ile Leu Arg Ser Pro Gly Leu Thr Ala Ala His Gly Ala Gly Ala
              130             135             140
Ala Gln Pro Arg Leu Ser His Arg Val Ala Arg Arg Leu Pro Gln Gly
145             150             155             160
Ala Glu Asp Leu Cys Ile Cys Pro Arg Ser His Arg Gly Ala Phe Gln
              165             170             175
Leu Leu Pro Ser Ala Leu Leu Val Arg Val Leu Glu Gly Ser Asp Ser
              180             185             190

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<210> 3243

<211> 315

<212> PRT

<213> Homo sapiens

<400> 3243

```

Met Met Ser Ser Val Ser Thr Glu Ser Lys Leu Gln Gln Ala Val Ser
  1              5              10              15
Leu Gln Gly Val Asp Pro Glu Thr Cys Met Ile Val Phe Lys Asn His
      20              25              30
Trp Ala Gln Val Val Lys Ile Leu Glu Lys His Asp Pro Leu Lys Asn
      35              40              45
Thr Gln Ala Lys Tyr Gly Ser Ile Pro Pro Asp Glu Ala Ser Ala Val
      50              55              60
Gln Asn Tyr Val Glu His Met Leu Phe Leu Leu Ile Glu Glu Gln Ala
      65              70              75              80
Lys Asp Ala Ala Met Gly Pro Ile Leu Glu Phe Val Val Ser Glu Asn
      85              90              95
Ile Met Glu Lys Leu Phe Leu Trp Ser Leu Arg Arg Glu Phe Thr Asp
      100             105             110
Glu Thr Lys Ile Glu Gln Leu Lys Met Tyr Glu Met Leu Val Thr Gln
      115             120             125
Ser His Gln Pro Leu Leu His His Lys Pro Ile Leu Lys Pro Leu Met
      130             135             140
Met Leu Leu Ser Ser Cys Ser Gly Thr Thr Thr Pro Thr Val Glu Glu
      145             150             155             160
Lys Leu Val Val Leu Leu Asn Gln Leu Cys Ser Ile Leu Ala Lys Asp
      165             170             175
Pro Ser Ile Leu Glu Leu Phe Phe His Thr Ser Glu Asp Gln Gly Ala
      180             185             190
Ala Asn Phe Leu Ile Phe Ser Leu Leu Ile Pro Phe Ile His Arg Glu
      195             200             205
Gly Ser Val Gly Gln Gln Ala Arg Asp Ala Leu Leu Phe Ile Met Ser
      210             215             220
Leu Ser Ala Glu Asn Thr Met Val Ala His His Ile Val Glu Asn Thr
      225             230             235             240
Tyr Phe Cys Pro Val Leu Ala Thr Gly Leu Ser Gly Leu Tyr Ser Ser
      245             250             255

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Leu Pro Thr Lys Leu Glu Asp Glu Glu Asp Asp Phe Asp Ser Phe Ile
 260 265 270
 Ala Glu Met Pro Ala Val Glu Thr Val Pro Ser Pro Phe Val Gly Arg
 275 280 285
 Asp Glu Ala Ala Phe Ala Ser Arg His Pro Val Arg Thr Gln Ser Thr
 290 295 300
 Pro Phe Thr Gly Pro Phe Ile Ser Val Val Leu
 305 310 315

<210> 3244

<211> 298

<212> PRT

<213> Homo sapiens

<400> 3244

Met Leu Asp Gly Leu Gln Arg Leu Arg Ser Gln Pro Lys Leu Ala Asp
 1 5 10 15
 Val Thr Leu Leu Val Gly Gly Arg Glu Leu Pro Cys His Arg Gly Leu
 20 25 30
 Leu Ala Leu Ser Ser Pro Tyr Phe His Ala Met Phe Ala Gly Asp Phe
 35 40 45
 Ala Glu Ser Phe Ser Ala Arg Val Glu Leu Arg Asp Val Glu Pro Ala
 50 55 60
 Val Val Gly Gln Leu Val Asp Phe Val Tyr Thr Gly Arg Leu Thr Ile
 65 70 75 80
 Thr Gln Gly Asn Val Glu Ala Leu Thr Arg Thr Ala Ala Arg Leu His
 85 90 95
 Phe Pro Ser Val Gln Lys Val Cys Gly Arg Tyr Leu Gln Gln Gln Leu
 100 105 110
 Asp Ala Ala Asn Cys Leu Gly Ile Cys Glu Phe Gly Glu Gln Gln Gly
 115 120 125
 Leu Leu Gly Val Ala Ala Lys Ala Trp Ala Phe Leu Arg Glu Asn Phe
 130 135 140
 Glu Ala Val Ala Arg Glu Asp Glu Phe Leu Gln Leu Pro Arg Glu Arg
 145 150 155 160

Leu Val Thr Cys Leu Ala Gly Asp Leu Leu Gln Val Gln Pro Glu Gln
 165 170 175
 Gly Arg Leu Glu Ala Leu Met Arg Trp Val Arg His Asp Pro Gln Ala
 180 185 190
 Arg Ala Val His Leu Pro Glu Leu Leu Ser Leu Val His Leu Asp Ala
 195 200 205
 Val Pro Arg Pro Cys Val Gln Gln Leu Leu Ala Ser Glu Pro Leu Ile
 210 215 220
 Gln Glu Ser Glu Ala Cys Arg Ala Ala Leu Ser Gln Gly His Asp Gly
 225 230 235 240
 Ala Pro Leu Ala Leu Gln Gln Lys Leu Glu Glu Val Leu Val Val Val
 245 250 255
 Gly Gly Gln Ala Leu Glu Glu Glu Glu Ala Gly Glu Glu Pro Thr Pro
 260 265 270
 Gly Leu Gly Asn Phe Ala Phe Tyr Asn Ser Lys Ala Lys Arg Trp Met
 275 280 285
 Ala Leu Pro Asp Phe Pro Asp Tyr His Lys
 290 295

<210> 3245

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3245

Met Cys Arg Cys Arg Arg Tyr Arg Arg Arg Gly Arg Val Trp Gly Gly
 1 5 10 15
 Ala Gly Asp Ser Arg Ala Ala Gly Asn Arg Ser Gly Ser Gly Ala Ala
 20 25 30
 Pro Gly Leu Arg Trp Gly Gly Val Arg His Trp Pro His Leu Val Ile
 35 40 45
 Pro Ala Ala His Arg Pro Gln Phe Pro Arg Leu Leu Asn Gly Tyr Ala
 50 55 60
 Gly Gly Ala Thr Gly Trp Ile Trp Ile Arg Ile Arg Gly Ile Gly Ile
 65 70 75 80

Gly Ala Ser Cys Val Leu Gly Val Ser Cys Asn Leu Glu Leu Gly Val
 85 90 95
 Ala Arg Phe Val Pro Gln Phe Pro Cys Ile Val Gly Asp Gly Ala
 100 105 110

<210> 3246

<211> 676

<212> PRT

<213> Homo sapiens

<400> 3246

Met Glu Pro Arg Gly Gly Gly Ser Ser Gln Phe Ser Ser Cys Pro Gly
 1 5 10 15
 Pro Ala Ser Ser Gly Asp Gln Met Gln Arg Leu Leu Gln Gly Pro Ala
 20 25 30
 Pro Arg Pro Pro Gly Glu Pro Pro Gly Ser Pro Lys Ser Pro Gly His
 35 40 45
 Ser Thr Gly Ser Gln Arg Pro Pro Asp Ser Pro Gly Ala Pro Pro Arg
 50 55 60
 Ser Pro Ser Arg Lys Lys Arg Arg Ala Val Gly Ala Lys Gly Gly Gly
 65 70 75 80
 His Thr Gly Ala Ser Ala Ser Ala Gln Thr Gly Ser Pro Leu Leu Pro
 85 90 95
 Ala Ala Ser Pro Glu Thr Ala Lys Leu Met Ala Lys Ala Gly Gln Glu
 100 105 110
 Glu Leu Gly Pro Gly Pro Ala Gly Ala Pro Glu Pro Gly Pro Arg Ser
 115 120 125
 Pro Val Gln Glu Asp Arg Pro Gly Pro Gly Leu Gly Leu Ser Thr Pro
 130 135 140
 Val Pro Val Thr Glu Gln Gly Thr Asp Gln Ile Arg Thr Pro Arg Arg
 145 150 155 160
 Ala Lys Leu His Thr Val Ser Thr Thr Val Trp Glu Ala Leu Pro Asp
 165 170 175
 Val Ser Arg Ala Lys Ser Asp Met Ala Val Ser Thr Pro Ala Ser Glu
 180 185 190

Pro Gln Pro Asp Arg Asp Met Ala Val Ser Thr Pro Ala Ser Glu Pro
 195 200 205
 Gln Ser Asp Arg Asp Met Ala Val Ser Thr Pro Ala Ser Glu Pro Gln
 210 215 220
 Pro Asp Thr Asp Met Ala Val Ser Thr Pro Ala Ser Glu Pro Gln Pro
 225 230 235 240
 Asp Arg Asp Met Ala Val Ser Ile Pro Ala Ser Lys Pro Gln Ser Asp
 245 250 255
 Thr Ala Val Ser Thr Pro Ala Ser Glu Pro Gln Ser Ser Val Ala Leu
 260 265 270

 Ser Thr Pro Ile Ser Lys Pro Gln Leu Asp Thr Asp Val Ala Val Ser
 275 280 285
 Thr Pro Ala Ser Lys His Gly Leu Asp Val Ala Leu Pro Thr Ala Gly
 290 295 300
 Pro Val Ala Lys Leu Glu Val Ala Ser Ser Pro Pro Val Ser Glu Ala
 305 310 315 320
 Val Pro Arg Met Thr Glu Ser Ser Gly Leu Val Ser Thr Pro Val Pro
 325 330 335
 Arg Ala Asp Ala Ala Gly Leu Ala Trp Pro Pro Thr Arg Arg Ala Gly
 340 345 350
 Pro Asp Val Val Glu Met Glu Ala Val Val Ser Glu Pro Ser Ala Gly
 355 360 365
 Ala Pro Gly Cys Cys Ser Gly Ala Pro Ala Leu Gly Leu Thr Gln Val
 370 375 380
 Pro Arg Lys Lys Lys Val Arg Phe Ser Val Ala Gly Pro Gly Pro Asn
 385 390 395 400
 Lys Pro Gly Ser Gly Gln Ala Ser Ala Arg Pro Ser Ala Leu Gln Thr
 405 410 415
 Ala Thr Gly Ala His Gly Gly Pro Gly Ala Trp Glu Ala Val Ala Val
 420 425 430
 Gly Pro Arg Pro His Gln Pro Arg Ile Leu Lys His Leu Pro Arg Pro
 435 440 445
 Pro Pro Ser Ala Val Thr Arg Val Gly Pro Gly Ser Ser Phe Ala Val
 450 455 460
 Thr Leu Pro Glu Ala Tyr Glu Phe Phe Phe Cys Asp Thr Ile Glu Glu

465 470 475 480
 Asn Glu Glu Ala Glu Ala Ala Ala Ala Gly Gln Asp Pro Ala Gly Val
 485 490 495
 Gln Trp Pro Asp Ile Cys Glu Phe Phe Phe Pro Asp Val Gly Ala Gln
 500 505 510
 Arg Ser Arg Arg Arg Gly Ser Pro Glu Pro Leu Pro Arg Ala Asp Pro
 515 520 525
 Val Pro Ala Pro Ile Pro Gly Asp Pro Val Pro Ile Ser Ile Pro Glu
 530 535 540
 Val Tyr Glu His Phe Phe Phe Gly Glu Asp Arg Leu Glu Gly Val Leu
 545 550 555 560
 Gly Pro Ala Val Pro Leu Pro Leu Gln Ala Leu Glu Pro Pro Arg Ser
 565 570 575
 Ala Ser Glu Gly Ala Gly Pro Gly Thr Pro Leu Lys Pro Ala Val Val
 580 585 590
 Glu Arg Leu His Leu Ala Leu Arg Arg Ala Gly Glu Leu Arg Gly Pro
 595 600 605
 Val Pro Ser Ser Ala Phe Ser Gln Asn Asp Met Cys Leu Val Phe Val
 610 615 620
 Ala Phe Ala Thr Trp Ala Val Arg Thr Ser Asp Pro His Thr Pro Asp
 625 630 635 640
 Ala Trp Lys Thr Ala Leu Leu Ala Asn Val Gly Thr Ile Ser Ala Ile
 645 650 655
 Arg Tyr Phe Arg Arg Gln Val Gly Gln Gly Arg Arg Ser His Ser Pro
 660 665 670
 Ser Pro Ser Ser
 675

<210> 3247

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3247

Met Ser Ser Asn Gln Cys Pro Gly Val His Gly Ser Ser Leu Ala Tyr

1 5 10 15
 Cys Ser Gly Leu His Ser Leu Gly His Cys Cys Leu Cys Arg Tyr Lys
 20 25 30
 Lys Lys Lys Lys Glu Lys Gln Lys Lys Glu Gly Thr Ala Ala Ser Gln
 35 40 45
 Asn Val Asn Gln Asn Ile Ser Leu Trp Tyr Trp Glu Arg Lys Arg Arg
 50 55 60
 Phe Pro Arg Glu Asp Glu Asp Gln Thr Asp Cys Arg Pro Ala Ile Ser
 65 70 75 80
 Leu His Cys Thr Trp Ile Gly His Leu Leu Tyr Ala Pro Gly Lys Lys
 85 90 95
 Ile Gln Arg Thr Met Leu Leu
 100

<210> 3248

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3248

Met Ala Asp His Asn Pro Asp Ser Asp Ser Thr Pro Arg Thr Leu Leu
 1 5 10 15
 Arg Arg Val Leu Asp Thr Ala Asp Pro Arg Thr Pro Arg Arg Pro Arg
 20 25 30
 Ser Ala Arg Ala Gly Ala Arg Arg Ala Leu Leu Glu Thr Ala Ser Pro
 35 40 45
 Arg Lys Leu Ser Gly Gln Thr Arg Thr Ile Ala Arg Gly Arg Ser His
 50 55 60
 Gly Ala Arg Val Ser Thr Gln Pro Thr Asp Pro Lys Gly Pro Trp Leu
 65 70 75 80
 Pro Arg Gly Gly Gly Leu Arg Ser Ser Ser Ala Leu Glu Pro Thr Leu
 85 90 95
 Arg Lys Ser Gln Gly Arg Arg Thr Asp Trp Leu Leu Gly Ala Leu Pro
 100 105 110
 Ile Val Cys Trp Gln Ile Gly Pro Tyr Ser Gly Gln Trp Ala Leu Gly

115 120 125
 Gly Thr Asp Thr Ser Asp Ala Ala Glu Glu His Pro Thr Asn Trp
 130 135 140

<210> 3249

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3249

Met Lys Glu Lys Ile Leu Arg Ala Ala Arg Glu Lys Gly Arg Ala Thr
 1 5 10 15
 His Lys Gly Lys Pro Ile Ser Leu Thr Ala Asp Leu Ser Thr Glu Thr
 20 25 30
 Leu Gln Ala Arg Arg Glu Trp Gly Pro Ile Phe Asn Ile Leu Lys Glu
 35 40 45
 Lys Asn Phe Gln Pro Arg Ile Ser Tyr Pro Ala Lys Leu Ser Phe Ile
 50 55 60
 Ser Glu Gly Glu Ile Lys Ser Phe Thr Asp Lys Arg Ile Leu Arg Asp
 65 70 75 80
 Phe Val Thr Thr Arg Pro Ala Leu Gln Gly Leu Leu Lys Glu Ala Leu
 85 90 95
 Asn Met Glu Arg Lys Asn Trp
 100

<210> 3250

<211> 367

<212> PRT

<213> Homo sapiens

<400> 3250

Met Arg Gln Lys Ile Lys Glu Val Glu Glu Lys Gln Pro Glu Val Lys
 1 5 10 15
 Thr Gly Phe Ile Ala Ser Phe Leu Asp Phe Leu Lys Ser Gly Pro Lys

	20		25		30										
Gln	Gln	Phe	Ser	Thr	Leu	Ala	Val	Arg	Met	Pro	Asn	Arg	Thr	Arg	Arg
	35						40					45			
Pro	Gly	Thr	Gln	Met	Val	Cys	Thr	Phe	Cys	Pro	Pro	Pro	Leu	Pro	Lys
	50						55					60			
Pro	Ser	Ser	Thr	Thr	Pro	Thr	Pro	Leu	Val	Ser	Glu	Thr	Gly	Gly	Asn
	65					70				75					80
Ser	Pro	Ser	Asp	Lys	Val	Asp	Asn	Glu	Leu	Lys	Asn	Leu	Glu	His	Leu
			85						90					95	
Ser	Ser	Phe	Ser	Ser	Asp	Glu	Asp	Asp	Pro	Gly	Tyr	Ser	Gln	Asp	Ala
			100						105					110	
Tyr	Lys	Ser	Val	Ser	Thr	Pro	Leu	Thr	Thr	Leu	Asp	Ala	Thr	Ser	Asp
			115					120						125	
Lys	Lys	Lys	Lys	Thr	Glu	Ala	Leu	Gln	Val	Ala	Thr	Thr	Ser	Pro	Thr
			130				135							140	
Ala	Asn	Thr	Thr	Gly	Thr	Ala	Thr	Thr	Ser	Ser	Thr	Thr	Val	Gly	Ala
			145				150				155				160
Val	Lys	Gln	Glu	Pro	Leu	His	Ser	Thr	Ser	Tyr	Ala	Val	Asn	Ile	Leu
						165				170				175	
Glu	Asn	Ile	Ser	Ser	Ser	Glu	Ser	Ser	Lys	Pro	Ile	Glu	Leu	Asp	Gly
			180						185					190	
Leu	Pro	Ser	Asp	Gln	Phe	Ala	Lys	Gly	Gln	Asp	Thr	Val	Ala	Ile	Glu
			195						200					205	
Gly	Phe	Thr	Asp	Glu	Glu	Asp	Thr	Glu	Ser	Gly	Gly	Glu	Gly	Gln	Tyr
			210					215						220	
Arg	Glu	Arg	Asp	Glu	Phe	Val	Val	Lys	Ile	Glu	Asp	Ile	Glu	Thr	Phe
			225				230				235				240
Lys	Glu	Ala	Leu	Lys	Thr	Gly	Lys	Glu	Pro	Pro	Ala	Ile	Trp	Lys	Val
						245					250			255	
Gln	Lys	Ala	Leu	Leu	Gln	Lys	Phe	Val	Pro	Val	Ile	Arg	Asp	Gly	Gln
			260						265					270	
Arg	Glu	Phe	Ala	Ala	Thr	Asn	Ser	Tyr	Leu	Gly	Tyr	Phe	Gly	Asp	Ala
			275						280					285	
Lys	Ser	Lys	Tyr	Lys	Arg	Ile	Tyr	Val	Lys	Phe	Ile	Glu	Asn	Ala	Asn
			290						295					300	
Lys	Lys	Glu	Tyr	Val	Arg	Val	Cys	Ser	Lys	Lys	Pro	Arg	Asn	Lys	Pro

305 310 315 320
 Ser Gln Thr Ile Arg Thr Val Gln Ala Lys Pro Ser Ser Ser Ser Lys
 325 330 335
 Thr Ser Asp Pro Leu Ala Ser Lys Thr Thr Thr Lys Ala Pro Ser
 340 345 350
 Val Lys Pro Lys Val Lys Gln Pro Lys Val Lys Ala Glu Pro Pro
 355 360 365

<210> 3251

<211> 1367

<212> PRT

<213> Homo sapiens

<400> 3251

Met Gly Asn Ser Asp Ser Gln Tyr Thr Leu Gln Gly Ser Lys Asn His
 1 5 10 15
 Ser Asn Thr Ile Thr Gly Ala Lys Gln Ile Pro Cys Ser Leu Lys Ile
 20 25 30
 Arg Gly Ile His Ala Lys Glu Glu Lys Ser Leu His Gly Trp Gly His
 35 40 45
 Gly Ser Asn Gly Ala Gly Tyr Lys Ser Arg Ser Leu Ala Arg Ser Cys
 50 55 60
 Leu Ser His Phe Lys Ser Asn Gln Pro Tyr Ala Ser Arg Leu Gly Gly
 65 70 75 80
 Pro Thr Cys Lys Val Ser Arg Gly Val Ala Tyr Ser Thr His Arg Thr
 85 90 95
 Asn Ala Pro Gly Lys Asp Phe Gln Gly Ile Ser Ala Ala Phe Ser Thr
 100 105 110
 Glu Asn Gly Phe His Ser Val Gly His Glu Leu Ala Asp Asn His Ile
 115 120 125
 Thr Ser Arg Asp Cys Asn Gly His Leu Leu Asn Cys Tyr Gly Arg Asn
 130 135 140
 Glu Ser Ile Ala Ser Thr Pro Pro Gly Glu Asp Arg Lys Ser Pro Arg
 145 150 155 160
 Val Leu Ile Lys Thr Leu Gly Lys Leu Asp Gly Cys Leu Arg Val Glu

	165		170		175
Phe His Asn Gly Gly Asn Pro Ser Lys Val Pro Ala Glu Asp Cys Ser					
	180		185		190
Glu Pro Val Gln Leu Leu Arg Tyr Ser Pro Thr Leu Ala Ser Glu Thr					
	195		200		205
Ser Pro Val Pro Glu Ala Arg Arg Gly Ser Ser Ala Asp Ser Leu Pro					
	210		215		220
Ser His Arg Pro Ser Pro Thr Asp Ser Arg Leu Arg Ser Ser Lys Gly					
225		230		235	240
Ser Ser Leu Ser Ser Glu Ser Ser Trp Tyr Asp Ser Pro Trp Gly Asn					
	245		250		255
Ala Gly Glu Leu Ser Glu Ala Glu Gly Ser Phe Leu Ala Pro Gly Met					
	260		265		270
Pro Asp Pro Ser Leu His Ala Ser Phe Pro Pro Gly Asp Ala Lys Lys					
	275		280		285
Pro Phe Asn Gln Ser Ser Ser Leu Ser Ser Leu Arg Glu Leu Tyr Lys					
	290		295		300
Asp Ala Asn Leu Gly Ser Leu Ser Pro Ser Gly Ile Arg Leu Ser Asp					
305		310		315	320
Glu Tyr Met Gly Thr His Ala Ser Leu Ser Asn His Val Ser Phe Ala					
	325		330		335
Ser Asp Ile Asp Val Pro Ser Arg Val Ala His Gly Asp Pro Ile Gln					
	340		345		350
Tyr Ser Ser Phe Thr Leu Pro Cys Arg Lys Pro Lys Ala Phe Val Glu					
	355		360		365
Asp Thr Ala Lys Lys Asp Ser Leu Lys Ala Arg Met Arg Arg Ile Ser					
	370		375		380
Asp Trp Thr Gly Ser Leu Ser Arg Lys Lys Arg Lys Leu Gln Glu Pro					
385		390		395	400
Arg Ser Lys Glu Gly Ser Asp Tyr Phe Asp Ser Arg Ser Asp Gly Leu					
	405		410		415
Asn Thr Asp Val Gln Gly Ser Ser Gln Ala Ser Ala Phe Leu Trp Ser					
	420		425		430
Gly Gly Ser Thr Gln Ile Leu Ser Gln Arg Ser Glu Ser Thr His Ala					
	435		440		445
Ile Gly Ser Asp Pro Leu Arg Gln Asn Ile Tyr Glu Asn Phe Met Arg					

450 455 460
 Glu Leu Glu Met Ser Arg Thr Asn Thr Glu Asn Ile Glu Thr Ser Thr
 465 470 475 480
 Glu Thr Ala Glu Ser Ser Ser Glu Ser Leu Ser Ser Leu Glu Gln Leu
 485 490 495
 Asp Leu Leu Phe Glu Lys Glu Gln Gly Val Val Arg Lys Ala Gly Trp
 500 505 510
 Leu Phe Phe Lys Pro Leu Val Thr Val Gln Lys Glu Arg Lys Leu Glu
 515 520 525
 Leu Val Ala Arg Arg Lys Trp Lys Gln Tyr Trp Val Thr Leu Lys Gly
 530 535 540
 Cys Thr Leu Leu Phe Tyr Glu Thr Tyr Gly Lys Asn Ser Met Asp Gln
 545 550 555 560
 Ser Ser Ala Pro Arg Cys Ala Leu Phe Ala Glu Asp Ser Ile Val Gln

 565 570 575
 Ser Val Pro Glu His Pro Lys Lys Glu Asn Val Phe Cys Leu Ser Asn
 580 585 590
 Ser Phe Gly Asp Val Tyr Leu Phe Gln Ala Thr Ser Gln Thr Asp Leu
 595 600 605
 Glu Asn Trp Val Thr Ala Val His Ser Ala Cys Ala Ser Leu Phe Ala
 610 615 620
 Lys Lys His Gly Lys Glu Asp Thr Leu Arg Leu Leu Lys Asn Gln Thr
 625 630 635 640
 Lys Asn Leu Leu Gln Lys Ile Asp Met Asp Ser Lys Met Lys Lys Met
 645 650 655
 Ala Glu Leu Gln Leu Ser Val Val Ser Asp Pro Lys Asn Arg Lys Ala
 660 665 670
 Ile Glu Asn Gln Ile Gln Gln Trp Glu Gln Asn Leu Glu Lys Phe His
 675 680 685
 Met Asp Leu Phe Arg Met Arg Cys Tyr Leu Ala Ser Leu Gln Gly Gly
 690 695 700
 Glu Leu Pro Asn Pro Lys Ser Leu Leu Ala Ala Ala Ser Arg Pro Ser
 705 710 715 720
 Lys Leu Ala Leu Gly Arg Leu Gly Ile Leu Ser Val Ser Ser Phe His
 725 730 735

Ala Leu Val Cys Ser Arg Asp Asp Ser Ala Leu Arg Lys Arg Thr Leu
 740 745 750
 Ser Leu Thr Gln Arg Gly Arg Asn Lys Lys Gly Ile Phe Ser Ser Leu
 755 760 765
 Lys Gly Leu Asp Thr Leu Ala Arg Lys Gly Lys Glu Lys Arg Pro Ser
 770 775 780
 Ile Thr Gln Val Asp Glu Leu Leu His Ile Tyr Gly Ser Thr Val Asp
 785 790 795 800
 Gly Val Pro Arg Asp Asn Ala Trp Glu Ile Gln Thr Tyr Val His Phe
 805 810 815
 Gln Asp Asn His Gly Val Thr Val Gly Ile Lys Pro Glu His Arg Val
 820 825 830
 Glu Asp Ile Leu Thr Leu Ala Cys Lys Met Arg Gln Leu Glu Pro Ser
 835 840 845
 His Tyr Gly Leu Gln Leu Arg Lys Leu Val Asp Asp Asn Val Glu Tyr
 850 855 860
 Cys Ile Pro Ala Pro Tyr Glu Tyr Met Gln Gln Gln Val Tyr Asp Glu
 865 870 875 880
 Ile Glu Val Phe Pro Leu Asn Val Tyr Asp Val Gln Leu Thr Lys Thr
 885 890 895
 Gly Ser Val Cys Asp Phe Gly Phe Ala Val Thr Ala Gln Val Asp Glu
 900 905 910
 Arg Gln His Leu Ser Arg Ile Phe Ile Ser Asp Val Leu Pro Asp Gly
 915 920 925
 Leu Ala Tyr Gly Glu Gly Leu Arg Lys Gly Asn Glu Ile Met Thr Leu
 930 935 940
 Asn Gly Glu Ala Val Ser Asp Leu Asp Leu Lys Gln Met Glu Ala Leu
 945 950 955 960
 Phe Ser Glu Lys Ser Val Gly Leu Thr Leu Ile Ala Arg Pro Pro Asp
 965 970 975
 Thr Lys Ala Thr Leu Cys Thr Ser Trp Ser Asp Ser Asp Leu Phe Ser
 980 985 990
 Arg Asp Gln Lys Ser Leu Leu Pro Pro Pro Asn Gln Ser Gln Leu Leu
 995 1000 1005
 Glu Glu Phe Leu Asp Asn Phe Lys Lys Asn Thr Ala Asn Asp Phe Ser
 1010 1015 1020

Asn Val Pro Asp Ile Thr Thr Gly Leu Lys Arg Ser Gln Thr Asp Gly
 1025 1030 1035 1040
 Thr Leu Asp Gln Val Ser His Arg Glu Lys Met Glu Gln Thr Phe Arg
 1045 1050 1055
 Ser Ala Glu Gln Ile Thr Ala Leu Cys Arg Ser Phe Asn Asp Ser Gln
 1060 1065 1070
 Ala Asn Gly Met Glu Gly Pro Arg Glu Asn Gln Asp Pro Pro Pro Arg
 1075 1080 1085
 Pro Leu Ala Arg His Leu Ser Asp Ala Asp Arg Leu Arg Lys Val Ile
 1090 1095 1100
 Gln Glu Leu Val Asp Thr Glu Lys Ser Tyr Val Lys Asp Leu Ser Cys
 1105 1110 1115 1120
 Leu Phe Glu Leu Tyr Leu Glu Pro Leu Gln Asn Glu Thr Phe Leu Thr
 1125 1130 1135
 Gln Asp Glu Met Glu Ser Leu Phe Gly Ser Leu Pro Glu Met Leu Glu
 1140 1145 1150
 Phe Gln Lys Val Phe Leu Glu Thr Leu Glu Asp Gly Ile Ser Ala Ser
 1155 1160 1165
 Ser Asp Phe Asn Thr Leu Glu Thr Pro Ser Gln Phe Arg Lys Leu Leu
 1170 1175 1180
 Phe Ser Leu Gly Gly Ser Phe Leu Tyr Tyr Ala Asp His Phe Lys Leu
 1185 1190 1195 1200
 Tyr Ser Gly Phe Cys Ala Asn His Ile Lys Val Gln Lys Val Leu Glu
 1205 1210 1215
 Arg Ala Lys Thr Asp Lys Ala Phe Lys Ala Phe Leu Asp Ala Arg Asn
 1220 1225 1230
 Pro Thr Lys Gln His Ser Ser Thr Leu Glu Ser Tyr Leu Ile Lys Pro
 1235 1240 1245
 Val Gln Arg Val Leu Lys Tyr Pro Leu Leu Leu Lys Glu Leu Val Ser
 1250 1255 1260
 Leu Thr Asp Gln Glu Ser Glu Glu His Tyr His Leu Thr Glu Ala Leu
 1265 1270 1275 1280
 Lys Ala Met Glu Lys Val Ala Ser His Ile Asn Glu Met Gln Lys Ile
 1285 1290 1295
 Tyr Glu Asp Tyr Gly Thr Val Phe Asp Arg Leu Val Ala Glu Gln Ser
 1300 1305 1310

Gly Thr Glu Lys Glu Val Thr Glu Leu Ser Met Gly Glu Leu Leu Met
1315 1320 1325
His Ser Thr Val Ser Trp Leu Asn Pro Phe Leu Ser Leu Gly Lys Ala
1330 1335 1340
Arg Lys Asp Leu Glu Leu Thr Val Phe Val Phe Lys Arg Ala Val Ile
1345 1350 1355 1360
Leu Val Tyr Lys Glu Asn Cys
1365

<210> 3252
<211> 238
<212> PRT
<213> Homo sapiens

<400> 3252																	
Met	Ile	Ser	Ser	Tyr	Leu	Val	Cys	Leu	Phe	Thr	Asp	Thr	Ile	Arg	Tyr		
1				5					10					15			
Leu	Ser	Leu	His	Asp	Asn	Lys	Tyr	Ile	Arg	Tyr	Phe	Pro	Gly	His	Ser		
			20					25					30				
Lys	Arg	Val	Val	Ala	Leu	Ser	Met	Ser	Pro	Val	Asp	Asp	Thr	Phe	Ile		
		35					40					45					
Ser	Gly	Ser	Leu	Asp	Lys	Thr	Ile	Arg	Leu	Trp	Asp	Leu	Arg	Ser	Pro		
	50					55					60						
Asn	Cys	Gln	Gly	Leu	Met	His	Leu	Gln	Gly	Lys	Pro	Val	Cys	Ser	Phe		
65				70					75						80		
Asp	Pro	Glu	Gly	Leu	Ile	Phe	Ala	Ala	Gly	Val	Asn	Ser	Glu	Met	Val		
			85						90					95			
Lys	Leu	Tyr	Asp	Leu	Arg	Ser	Phe	Asp	Lys	Gly	Pro	Phe	Ala	Thr	Phe		
		100						105					110				
Lys	Met	Gln	Tyr	Asp	Arg	Thr	Cys	Glu	Trp	Thr	Gly	Leu	Lys	Phe	Ser		
	115						120					125					
Asn	Asp	Gly	Lys	Leu	Ile	Leu	Ile	Ser	Thr	Asn	Gly	Ser	Phe	Ile	Arg		
	130					135					140						
Leu	Ile	Asp	Ala	Phe	Lys	Gly	Val	Val	Met	His	Thr	Phe	Gly	Gly	Tyr		
145					150				155						160		

Ala Asn Ser Lys Ala Val Thr Leu Glu Ala Ser Phe Thr Pro Asp Ser
 165 170 175
 Gln Phe Ile Met Ile Gly Ser Glu Asp Gly Lys Ile His Val Trp Asn
 180 185 190
 Gly Glu Ser Gly Ile Lys Val Ala Val Leu Asp Gly Lys His Thr Gly
 195 200 205
 Pro Ile Thr Cys Leu Gln Phe Asn Pro Lys Phe Met Thr Phe Ala Ser
 210 215 220
 Ala Cys Ser Asn Met Ala Phe Trp Leu Pro Thr Ile Asp Asp
 225 230 235

<210> 3253

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3253

Met Gln Glu Ala Thr Leu Ser His Pro Arg Tyr Cys Pro His Thr Gln
 1 5 10 15
 Ala Ala Ala Leu Asn Ile Pro His Asn Lys Ala Lys Gly Ser Asp Lys
 20 25 30
 Ser Tyr Tyr Ser Gln Pro Ser His Leu Glu Thr Arg Gly Glu Thr Asn
 35 40 45
 Leu Pro Leu Asp Val Leu Arg Glu Arg Gln Asp Pro Gln Arg Asn Leu
 50 55 60
 Ser Glu Leu Ser Thr Cys Leu Ile Gln Gln Asp Arg Asp Gly Arg Arg
 65 70 75 80
 Leu Ala Phe Ser Phe Ala Trp Val Ser Thr Ile Leu Gln Gly Lys Leu
 85 90 95
 Cys Gly Gln Leu Gly Asn Thr Thr Ile Asn Trp Arg Gly Met Asn Asn
 100 105 110
 Arg Val Ser Gly Ala Val Cys
 115

<210> 3254

<211> 881

<212> PRT

<213> Homo sapiens

<400> 3254

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Met Asn Tyr Pro Gly Arg Gly Ser Pro Arg Ser Pro Glu His Asn Gly
  1             5             10             15
Arg Gly Gly Gly Gly Gly Ala Trp Glu Leu Gly Ser Asp Ala Arg Pro
      20             25             30
Ala Phe Gly Gly Gly Val Cys Cys Phe Glu His Leu Pro Gly Gly Asp
      35             40             45
Pro Asp Asp Gly Asp Val Pro Leu Ala Leu Leu Arg Gly Glu Pro Gly
      50             55             60
Leu His Leu Ala Pro Gly Thr Asp Asp His Asn His His Leu Ala Leu
      65             70             75             80
Asp Pro Cys Leu Ser Asp Glu Asn Tyr Asp Phe Ser Ser Ala Glu Ser
      85             90             95
Gly Ser Ser Leu Arg Tyr Tyr Ser Glu Gly Glu Ser Gly Gly Gly Gly
      100            105            110
Gly Gly Ser Ser Leu Ser Leu His Pro Pro Gln Gln Pro Pro Leu Val
      115            120            125
Pro Thr Asn Ser Gly Gly Gly Gly Ala Thr Gly Gly Ser Pro Gly Glu
      130            135            140
Arg Lys Arg Thr Arg Leu Gly Gly Pro Ala Ala Arg His Arg Tyr Glu
      145            150            155            160
Val Val Thr Glu Leu Gly Pro Glu Glu Val Arg Trp Phe Tyr Lys Glu
      165            170            175
Asp Lys Lys Thr Trp Lys Pro Phe Ile Gly Tyr Asp Ser Leu Arg Ile
      180            185            190
Glu Leu Ala Phe Arg Thr Leu Leu Gln Thr Thr Gly Ala Arg Pro Gln
      195            200            205
Gly Gly Asp Arg Asp Gly Asp His Val Cys Ser Pro Thr Gly Pro Ala
      210            215            220
Ser Ser Ser Gly Glu Asp Asp Asp Glu Asp Arg Ala Cys Gly Phe Cys
      225            230            235            240

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Gln Ser Thr Thr Gly His Glu Pro Glu Met Val Glu Leu Val Asn Ile
 245 250 255
 Glu Pro Val Cys Val Arg Gly Gly Leu Tyr Glu Val Asp Val Thr Gln
 260 265 270
 Gly Glu Cys Tyr Pro Val Tyr Trp Asn Gln Ala Asp Lys Ile Pro Val
 275 280 285
 Met Arg Gly Gln Trp Phe Ile Asp Gly Thr Trp Gln Pro Leu Glu Glu
 290 295 300
 Glu Glu Ser Asn Leu Ile Glu Gln Glu His Leu Asn Cys Phe Arg Gly
 305 310 315 320
 Gln Gln Met Gln Glu Asn Phe Asp Ile Glu Val Ser Lys Ser Ile Asp
 325 330 335
 Gly Lys Asp Gly Ser Gly Ile Asn Tyr Ser Ala Val His Ser Phe Lys
 340 345 350
 Leu Ser Arg Asn His Val Asp Trp His Ser Val Asp Glu Val Tyr Leu
 355 360 365
 Tyr Ser Asp Ala Thr Thr Ser Lys Ile Ala Arg Thr Val Thr Gln Lys
 370 375 380
 Leu Gly Phe Ser Lys Ala Ser Ser Ser Gly Thr Arg Leu His Arg Gly
 385 390 395 400
 Tyr Val Glu Glu Ala Thr Leu Glu Asp Lys Pro Ser Gln Thr Thr His
 405 410 415
 Ile Val Phe Val Val His Gly Ile Gly Gln Lys Met Asp Gln Gly Arg
 420 425 430
 Ile Ile Lys Asn Thr Ala Met Met Arg Glu Ala Ala Arg Lys Ile Glu
 435 440 445
 Glu Arg His Phe Ser Asn His Ala Thr His Val Glu Phe Leu Pro Val
 450 455 460
 Glu Trp Arg Ser Lys Leu Thr Leu Asp Gly Asp Thr Val Asp Ser Ile
 465 470 475 480
 Thr Pro Asp Lys Val Arg Gly Leu Arg Asp Met Leu Asn Ser Ser Ala
 485 490 495
 Met Asp Ile Met Tyr Tyr Thr Ser Pro Leu Tyr Arg Asp Glu Leu Val
 500 505 510
 Lys Gly Leu Gln Gln Glu Leu Asn Arg Leu Tyr Ser Leu Phe Cys Ser

515	520	525
Arg Asn Pro Asp Phe Glu Glu Lys Gly Gly Lys Val Ser Ile Val Ser		
530	535	540
His Ser Leu Gly Cys Val Ile Thr Tyr Asp Ile Met Thr Gly Trp Asn		
545	550	555
Pro Val Arg Leu Tyr Glu Gln Leu Leu Gln Lys Glu Glu Glu Leu Pro		
565	570	575
Asp Glu Arg Trp Met Ser Tyr Glu Glu Arg His Leu Leu Asp Glu Leu		
580	585	590
Tyr Ile Thr Lys Arg Arg Leu Lys Glu Ile Glu Glu Arg Leu His Gly		
595	600	605
Leu Lys Ala Ser Ser Met Thr Gln Thr Pro Ala Leu Lys Phe Lys Val		
610	615	620
Glu Asn Phe Phe Cys Met Gly Ser Pro Leu Ala Val Phe Leu Ala Leu		
625	630	635
Arg Gly Ile Arg Pro Gly Asn Thr Gly Ser Gln Asp His Ile Leu Pro		
645	650	655
Arg Glu Ile Cys Asn Arg Leu Leu Asn Ile Phe His Pro Thr Asp Pro		
660	665	670
Val Ala Tyr Arg Leu Glu Pro Leu Ile Leu Lys His Tyr Ser Asn Ile		
675	680	685
Ser Pro Val Gln Ile His Trp Tyr Asn Thr Ser Asn Pro Leu Pro Tyr		
690	695	700
Glu His Met Lys Pro Ser Phe Leu Asn Pro Ala Lys Glu Pro Thr Ser		
705	710	715
Val Ser Glu Asn Glu Gly Ile Ser Thr Ile Pro Ser Pro Val Thr Ser		
725	730	735
Pro Val Leu Ser Arg Arg His Tyr Gly Glu Ser Ile Thr Asn Ile Gly		
740	745	750
Lys Ala Ser Ile Leu Gly Ala Ala Ser Ile Gly Lys Gly Leu Gly Gly		
755	760	765
Met Leu Phe Ser Arg Phe Gly Arg Ser Ser Thr Thr Gln Ser Ser Glu		
770	775	780
Thr Ser Lys Asp Ser Met Glu Asp Glu Lys Lys Pro Val Ala Ser Pro		
785	790	795
Ser Ala Thr Thr Val Gly Thr Gln Thr Leu Pro His Ser Ser Ser Gly		

	805		810		815										
Phe	Leu	Asp	Ser	Ala	Leu	Glu	Leu	Asp	His	Arg	Ile	Asp	Phe	Glu	Leu
	820		825		830										
Arg	Glu	Gly	Leu	Val	Glu	Ser	Arg	Tyr	Trp	Ser	Ala	Val	Thr	Ser	His
	835		840		845										
Thr	Ala	Tyr	Trp	Ser	Ser	Leu	Asp	Val	Ala	Leu	Phe	Leu	Leu	Thr	Phe
	850		855		860										
Met	Tyr	Lys	His	Glu	His	Asp	Asp	Asp	Ala	Lys	Pro	Asn	Leu	Asp	Pro
865			870		875								880		
Ile															

<210> 3255

<211> 141

<212> PRT

<213> Homo sapiens

<400> 3255

Met	Cys	Ala	Trp	Met	Ile	Asp	Ser	Phe	Gly	Asn	Glu	Glu	Gln	Arg	His
1				5					10					15	
Lys	Phe	Cys	Pro	Pro	Leu	Cys	Thr	Met	Glu	Lys	Phe	Ala	Ser	Tyr	Cys
			20						25					30	
Leu	Thr	Glu	Pro	Gly	Ser	Gly	Ser	Asp	Ala	Ala	Ser	Leu	Leu	Thr	Ser
			35						40					45	
Ala	Lys	Lys	Gln	Gly	Asp	His	Tyr	Ile	Leu	Asn	Gly	Ser	Lys	Ala	Phe
			50						55					60	
Ile	Ser	Gly	Ala	Gly	Glu	Ser	Asp	Ile	Tyr	Val	Val	Met	Cys	Arg	Thr
			65						70					75	
Gly	Gly	Pro	Gly	Pro	Lys	Gly	Ile	Ser	Cys	Ile	Val	Val	Glu	Lys	Gly
					85				90					95	
Thr	Pro	Gly	Leu	Ser	Phe	Gly	Lys	Lys	Glu	Lys	Lys	Val	Ser	Gly	Cys
			100						105					110	
Trp	Thr	Gly	Asn	Asn	Ser	Gly	Tyr	Glu	Thr	Leu	Pro	Pro	Ala	Ser	Pro
			115						120					125	
Thr	Pro	Ala	Leu	Phe	Gln	Lys	Thr	Gly	Leu	His	Thr	Cys			

130

135

140

<210> 3256

<211> 254

<212> PRT

<213> Homo sapiens

<400> 3256

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Met Ala Ala Val Ala Ala Thr Ala Ala Ala Lys Gly Asn Gly Gly Gly
  1             5             10             15
Gly Gly Arg Ala Gly Ala Gly Asp Ala Ser Gly Thr Arg Lys Lys Lys
      20             25             30
Gly Pro Gly Pro Leu Ala Thr Ala Tyr Leu Val Ile Tyr Asn Val Val
      35             40             45
Met Thr Ala Gly Trp Leu Val Ile Ala Val Gly Leu Val Arg Ala Tyr
      50             55             60
Leu Ala Lys Gly Ser Tyr His Ser Leu Tyr Tyr Ser Ile Glu Lys Pro
      65             70             75             80
Leu Lys Phe Phe Gln Thr Gly Ala Leu Leu Glu Ile Leu His Cys Ala
      85             90             95
Ile Gly Ile Val Pro Ser Ser Val Val Leu Thr Ser Phe Gln Val Met
      100            105            110
Ser Arg Val Phe Leu Ile Trp Ala Val Thr His Ser Val Lys Glu Val
      115            120            125
Gln Ser Glu Asp Ser Val Leu Leu Phe Val Ile Ala Trp Thr Ile Thr
      130            135            140
Glu Ile Ile Arg Tyr Ser Phe Tyr Thr Phe Ser Leu Leu Asn His Leu
      145            150            155            160
Pro Tyr Leu Ile Lys Trp Ala Arg Tyr Thr Leu Phe Ile Val Leu Tyr
      165            170            175
Pro Met Gly Val Ser Gly Glu Leu Leu Thr Ile Tyr Ala Ala Leu Pro
      180            185            190
Phe Val Arg Gln Ala Gly Leu Tyr Ser Ile Ser Leu Pro Asn Lys Tyr
      195            200            205
Asn Phe Ser Phe Asp Tyr Tyr Ala Phe Leu Ile Leu Ile Met Ile Ser

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210	215	220	
Tyr Ile Pro Ile Phe Pro Gln Leu Tyr Phe His Met Ile His Gln Arg			
225	230	235	240
Arg Lys Ile Leu Ser His Thr Glu Glu His Lys Lys Phe Glu			
245	250		

<210> 3257

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3257

Met Leu Trp Ser Val Pro Gly Asp Arg Ala Ala Pro Gly His Pro Pro			
1	5	10	15
Phe Arg Ser Glu Ala Ser His Pro Thr Gln Gly Pro Ser Thr Thr Ser			
20	25	30	
Pro Phe Ser Pro Phe Leu Gly Ala Asp Pro Gly Gly Ser Ile Tyr Arg			
35	40	45	
Gly Val Pro Gly Ser Leu Thr Ala Gly Thr Thr Glu Ala Arg Lys Ser			
50	55	60	
Cys Leu Ala Pro Ala Gln Gly Thr Gln Gly Arg Leu Gly Ala Pro Ala			
65	70	75	80
Gly Ser His Ser Pro Arg Arg Gln Gly Leu Val Tyr Pro Cys Ala Met			
85	90	95	
Ser Val Ile Gly Leu Cys Ala Gly Ser Val Met Arg Ser Leu Pro Gly			
100	105	110	
Leu Pro Arg Pro Arg Arg			
115			

<210> 3258

<211> 804

<212> PRT

<213> Homo sapiens

<400> 3258

Met Arg Pro Val Ala Leu Leu Leu Leu Pro Ser Leu Leu Ala Leu Leu
 1 5 10 15
 Ala His Gly Leu Ser Leu Glu Ala Pro Thr Val Gly Lys Gly Gln Ala
 20 25 30
 Pro Gly Ile Glu Glu Thr Asp Gly Glu Leu Thr Ala Ala Pro Thr Pro
 35 40 45
 Glu Gln Pro Glu Arg Gly Val His Phe Val Thr Thr Ala Pro Thr Leu
 50 55 60
 Lys Leu Leu Asn His His Pro Leu Leu Glu Glu Phe Leu Gln Glu Gly
 65 70 75 80
 Leu Glu Lys Gly Asp Glu Glu Leu Arg Pro Ala Leu Pro Phe Gln Pro
 85 90 95
 Asp Pro Pro Ala Pro Phe Thr Pro Ser Pro Leu Pro Arg Leu Ala Asn
 100 105 110
 Gln Asp Ser Arg Pro Val Phe Thr Ser Pro Thr Pro Ala Met Ala Ala
 115 120 125
 Val Pro Thr Gln Pro Gln Ser Lys Glu Gly Pro Trp Ser Pro Glu Ser
 130 135 140
 Glu Ser Pro Met Leu Arg Ile Thr Ala Pro Leu Pro Pro Gly Pro Ser
 145 150 155 160
 Met Ala Val Pro Thr Leu Gly Pro Gly Glu Ile Ala Ser Thr Thr Pro
 165 170 175
 Pro Ser Arg Ala Trp Thr Pro Thr Gln Glu Gly Pro Gly Asp Met Gly
 180 185 190
 Arg Pro Trp Val Ala Glu Val Val Ser Gln Gly Ala Gly Ile Gly Ile
 195 200 205
 Gln Gly Thr Ile Thr Ser Ser Thr Ala Ser Gly Asp Asp Glu Glu Thr
 210 215 220
 Thr Thr Thr Thr Thr Ile Ile Thr Thr Thr Ile Thr Thr Val Gln Thr
 225 230 235 240
 Pro Gly Pro Cys Ser Trp Asn Phe Ser Gly Pro Glu Gly Ser Leu Asp
 245 250 255
 Ser Pro Thr Asp Leu Ser Ser Pro Thr Asp Val Gly Leu Asp Cys Phe
 260 265 270
 Phe Tyr Ile Ser Val Tyr Pro Gly Tyr Gly Val Glu Ile Lys Val Gln

275	280	285
Asn Ile Ser Leu Arg Glu Gly	Glu Thr Val Thr Val	Glu Gly Leu Gly
290	295	300
Gly Pro Asp Pro Leu Pro Leu	Ala Asn Gln Ser Phe Leu Leu	Arg Gly
305	310	315
Gln Val Ile Arg Ser Pro Thr	His Gln Ala Ala Leu Arg	Phe Gln Ser
325	330	335
Leu Pro Pro Pro Ala Gly Pro	Gly Thr Phe His Phe His	Tyr Gln Ala
340	345	350
Tyr Leu Leu Ser Cys His Phe	Pro Arg Arg Pro Ala Tyr	Gly Asp Val
355	360	365
Thr Val Thr Ser Leu His Pro	Gly Gly Ser Ala Arg Phe	His Cys Ala
370	375	380
Thr Gly Tyr Gln Leu Lys Gly	Ala Arg His Leu Thr Cys	Leu Asn Ala
385	390	395
Thr Gln Pro Phe Trp Asp Ser	Lys Glu Pro Val Cys Ile	Ala Ala Cys
405	410	415
Gly Gly Val Ile Arg Asn Ala	Thr Thr Gly Arg Ile Val	Ser Pro Gly
420	425	430
Phe Pro Gly Asn Tyr Ser Asn	Asn Leu Thr Cys His Trp	Leu Leu Glu
435	440	445
Ala Pro Glu Gly Gln Arg Leu	His Leu His Phe Glu Lys	Val Ser Leu
450	455	460
Ala Glu Asp Asp Asp Arg Leu	Ile Ile Arg Asn Gly Asp	Asn Val Glu
465	470	475
Ala Pro Pro Val Tyr Asp Ser	Tyr Glu Val Glu Tyr Leu	Pro Ile Glu
485	490	495
Gly Leu Leu Ser Ser Gly Lys	His Phe Phe Val Glu Leu	Ser Thr Asp
500	505	510
Ser Ser Gly Ala Ala Ala Gly	Met Ala Leu Arg Tyr Glu	Ala Phe Gln
515	520	525
Gln Gly His Cys Tyr Glu Pro	Phe Val Lys Tyr Gly Asn	Phe Ser Ser
530	535	540
Ser Thr Pro Thr Tyr Pro Val	Gly Thr Thr Val Glu Phe	Ser Cys Asp
545	550	555
Pro Gly Tyr Thr Leu Glu Gln	Gly Ser Ile Ile Ile Glu	Cys Val Asp

	565		570		575										
Pro	His	Asp	Pro	Gln	Trp	Asn	Glu	Thr	Glu	Pro	Ala	Cys	Arg	Ala	Val
	580		585		590										
Cys	Ser	Gly	Glu	Ile	Thr	Asp	Ser	Ala	Gly	Val	Val	Leu	Ser	Pro	Asn
	595		600		605										
Trp	Pro	Glu	Pro	Tyr	Gly	Arg	Gly	Gln	Asp	Cys	Ile	Trp	Gly	Val	His
	610		615		620										
Val	Glu	Glu	Asp	Lys	Arg	Ile	Met	Leu	Asp	Ile	Arg	Val	Leu	Arg	Ile
625			630		635										
Gly	Pro	Gly	Asp	Val	Leu	Thr	Phe	Tyr	Asp	Gly	Asp	Asp	Leu	Thr	Ala
	645		650		655										
Arg	Val	Leu	Gly	Gln	Tyr	Ser	Gly	Pro	Arg	Ser	His	Phe	Lys	Leu	Phe
	660		665		670										
Thr	Ser	Met	Ala	Asp	Val	Thr	Ile	Gln	Phe	Gln	Ser	Asp	Pro	Gly	Thr
	675		680		685										
Ser	Val	Leu	Gly	Tyr	Gln	Gln	Gly	Phe	Val	Ile	His	Phe	Phe	Glu	Val
	690		695		700										
Pro	Arg	Asn	Asp	Thr	Cys	Pro	Glu	Leu	Pro	Glu	Ile	Pro	Asn	Gly	Trp
705			710		715										
Lys	Ser	Pro	Ser	Gln	Pro	Glu	Leu	Val	His	Gly	Thr	Val	Val	Thr	Tyr
	725		730		735										
Gln	Cys	Tyr	Pro	Gly	Tyr	Gln	Val	Val	Gly	Ser	Ser	Val	Leu	Met	Cys
	740		745		750										
Gln	Trp	Asp	Leu	Thr	Trp	Ser	Glu	Asp	Leu	Pro	Ser	Cys	Gln	Arg	Val
	755		760		765										
Thr	Ser	Cys	His	Asp	Pro	Gly	Asp	Val	Glu	His	Ser	Arg	Arg	Pro	Tyr
	770		775		780										
Pro	Ala	Pro	Ser	Phe	Pro	Trp	Gly	Pro	Pro	Cys	Asn	Ile	Ser	Val	Thr
785			790		795										
Arg	Val	Leu	Cys												

<210> 3259

<211> 327

<212> PRT

<213> Homo sapiens

<400> 3259

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Met Ala Glu Ala Gln Ser Gly Thr Gly Gln Leu Gln Glu Gln Lys Lys
  1              5              10              15
Gly Leu Leu Ile Ala Val Ser Val Ser Val Asp Lys Ile Ile Ser His
      20              25              30
Phe Gly Ala Ala Arg Asn Leu Val Gln Lys Ala Gln Leu Gly Asp Ser
      35              40              45
Arg Leu Ser Pro Asp Val Gly His Leu Val Leu Thr Thr Leu Cys Pro
      50              55              60
Ala Leu His Ala Leu Val Ala Asp Gly Leu Lys Pro Phe Arg Lys Asp
      65              70              75              80
Leu Ile Thr Gly Gln Arg Arg Ser Ser Pro Trp Ser Val Val Glu Ala
      85              90              95
Ser Val Lys Pro Gly Ser Ser Thr Arg Ser Leu Gly Thr Leu Tyr Ser
      100             105             110
Gln Val Ser Arg Leu Ala Pro Leu Ser Ser Ser Arg Ser Arg Phe His
      115             120             125
Ala Phe Ile Leu Gly Leu Leu Asn Thr Lys Gln Leu Glu Leu Trp Phe
      130             135             140
Ser Ser Leu Gln Glu Asp Ala Gly Ser Trp Trp Glu Gln Leu Thr Gln
      145             150             155             160
Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu Gly Phe Pro Leu Ser
      165             170             175
Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala Glu Glu Gly Ala Gln
      180             185             190
Glu Arg Pro Leu Pro Thr Asp Glu Met Ala Pro Gly Arg Gly Leu Trp
      195             200             205
Leu Gly Arg Leu Phe Gly Val Pro Gly Gly Pro Ala Glu Asn Glu Asn
      210             215             220
Gly Ala Leu Lys Ser Arg Arg Pro Ser Ser Trp Leu Pro Pro Thr Val
      225             230             235             240
Ser Val Leu Ala Leu Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser

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245 250 255
 Pro Gln Glu Leu Glu Ala Ser Ala Pro Arg Met Val Gln Thr His Arg
 260 265 270
 Ala Val Arg Ala Leu Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu
 275 280 285
 Ser Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu
 290 295 300
 Asp Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val
 305 310 315 320
 Gly Tyr Thr Ser Leu Val Leu

325

<210> 3260

<211> 1076

<212> PRT

<213> Homo sapiens

<400> 3260

Met Gly Ile Leu Ser Ile Thr Asp Gln Pro Pro Leu Val Gln Ala Ile
 1 5 10 15
 Phe Ser Arg Asp Val Glu Glu Val Arg Ser Leu Leu Ser Gln Lys Glu
 20 25 30
 Asn Ile Asn Val Leu Asp Gln Glu Arg Arg Thr Pro Leu His Ala Ala
 35 40 45
 Ala Tyr Val Gly Asp Val Pro Ile Leu Gln Leu Leu Leu Met Ser Gly
 50 55 60
 Ala Asn Val Asn Ala Lys Asp Thr Leu Trp Leu Thr Pro Leu His Arg
 65 70 75 80
 Ala Ala Ala Ser Arg Asn Glu Lys Val Leu Gly Leu Leu Leu Ala His
 85 90 95
 Ser Ala Asp Val Asn Ala Arg Asp Lys Leu Trp Gln Thr Pro Leu His
 100 105 110
 Val Ala Ala Ala Asn Arg Ala Thr Lys Cys Ala Glu Ala Leu Ala Pro
 115 120 125

Leu Leu Ser Ser Leu Asn Val Ala Asp Arg Ser Gly Arg Ser Ala Leu
 130 135 140
 His His Ala Val His Ser Gly His Leu Glu Thr Val Asn Leu Leu Leu
 145 150 155 160
 Asn Lys Gly Ala Ser Leu Asn Val Cys Asp Lys Lys Glu Arg Gln Pro
 165 170 175
 Leu His Trp Ala Ala Phe Leu Gly His Leu Glu Val Leu Lys Leu Leu
 180 185 190
 Val Ala Arg Gly Ala Asp Leu Gly Cys Lys Asp Arg Lys Gly Tyr Gly
 195 200 205

 Leu Leu His Thr Ala Ala Ala Ser Gly Gln Ile Glu Val Val Lys Tyr
 210 215 220
 Leu Leu Arg Met Gly Ala Glu Ile Asp Glu Pro Asn Ala Phe Gly Asn
 225 230 235 240
 Thr Ala Leu His Ile Ala Cys Tyr Leu Gly Gln Asp Ala Val Ala Ile
 245 250 255
 Glu Leu Val Asn Ala Gly Ala Asn Val Asn Gln Pro Asn Asp Lys Gly
 260 265 270
 Phe Thr Pro Leu His Val Ala Ala Val Ser Thr Asn Gly Ala Leu Cys
 275 280 285
 Leu Glu Leu Leu Val Asn Asn Gly Ala Asp Val Asn Tyr Gln Ser Lys
 290 295 300
 Glu Gly Lys Ser Pro Leu His Met Ala Ala Ile His Gly Arg Phe Thr
 305 310 315 320
 Arg Ser Gln Ile Leu Ile Gln Asn Gly Ser Glu Ile Asp Cys Ala Asp
 325 330 335
 Lys Phe Gly Asn Thr Pro Leu His Val Ala Ala Arg Tyr Gly His Glu
 340 345 350
 Leu Leu Ile Ser Thr Leu Met Thr Asn Gly Ala Asp Thr Ala Arg Arg
 355 360 365
 Gly Ile His Asp Met Phe Pro Leu His Leu Ala Val Leu Phe Gly Phe
 370 375 380
 Ser Asp Cys Cys Arg Lys Leu Leu Ser Ser Gly Gln Leu Tyr Ser Ile
 385 390 395 400
 Val Ser Ser Leu Ser Asn Glu His Val Leu Ser Ala Gly Phe Asp Ile

	405		410		415
Asn Thr Pro Asp Asn Leu Gly Arg Thr Cys Leu His Ala Ala Ala Ser					
	420		425		430
Gly Gly Asn Val Glu Cys Leu Asn Leu Leu Leu Ser Ser Gly Ala Asp					
	435		440		445
Leu Arg Arg Arg Asp Lys Phe Gly Arg Thr Pro Leu His Tyr Ala Ala					
	450		455		460
Ala Asn Gly Ser Tyr Gln Cys Ala Val Thr Leu Val Thr Ala Gly Ala					
465		470		475	480
Gly Val Asn Glu Ala Asp Cys Lys Gly Cys Ser Pro Leu His Tyr Ala					
	485		490		495
Ala Ala Ser Asp Thr Tyr Arg Arg Ala Glu Pro His Thr Pro Ser Ser					
	500		505		510
His Asp Ala Glu Glu Asp Glu Pro Leu Lys Glu Ser Arg Arg Lys Glu					
	515		520		525
Ala Phe Phe Cys Leu Glu Phe Leu Leu Asp Asn Gly Ala Asp Pro Ser					
	530		535		540
Leu Arg Asp Arg Gln Gly Tyr Thr Ala Val His Tyr Ala Ala Ala Tyr					
545		550		555	560
Gly Asn Arg Gln Asn Leu Glu Leu Leu Leu Glu Met Ser Phe Asn Cys					
	565		570		575
Leu Glu Asp Val Glu Ser Thr Ile Pro Val Ser Pro Leu His Leu Ala					
	580		585		590
Ala Tyr Asn Gly His Cys Glu Ala Leu Lys Thr Leu Ala Glu Thr Leu					
	595		600		605
Val Asn Leu Asp Val Arg Asp His Lys Gly Arg Thr Ala Leu Phe Leu					
	610		615		620
Ala Thr Glu Arg Gly Ser Thr Glu Cys Val Glu Val Leu Thr Ala His					
625		630		635	640
Gly Ala Ser Ala Leu Ile Lys Glu Arg Lys Arg Lys Trp Thr Pro Leu					
	645		650		655
His Ala Ala Ala Ala Ser Gly His Thr Asp Ser Leu His Leu Leu Ile					
	660		665		670
Asp Ser Gly Glu Arg Ala Asp Ile Thr Asp Val Met Asp Ala Tyr Gly					
	675		680		685
Gln Thr Pro Leu Met Leu Ala Ile Met Asn Gly His Val Asp Cys Val					

690	695	700	
His Leu Leu Leu Glu Lys Gly Ser Thr Ala Asp Ala Ala Asp Leu Arg			
705	710	715	720
Gly Arg Thr Ala Leu His Arg Gly Ala Val Thr Gly Cys Glu Asp Cys			
725	730	735	
Leu Ala Ala Leu Leu Asp His Asp Ala Phe Val Leu Cys Arg Asp Phe			
740	745	750	
Lys Gly Arg Thr Pro Ile His Leu Ala Ser Ala Cys Gly His Thr Ala			
755	760	765	
Val Leu Arg Thr Leu Leu Gln Ala Ala Leu Ser Thr Asp Pro Leu Asp			
770	775	780	
Ala Gly Val Asp Tyr Ser Gly Tyr Ser Pro Met His Trp Ala Ser Tyr			
785	790	795	800
Thr Gly Arg Glu Asp Cys Leu Glu Leu Leu Leu Glu His Ser Pro Phe			
805	810	815	
Ser Tyr Leu Glu Gly Asn Pro Phe Thr Pro Leu His Cys Ala Val Ile			
820	825	830	
Asn Asn Gln Asp Ser Thr Thr Glu Met Leu Leu Gly Ala Leu Gly Ala			
835	840	845	
Lys Ile Val Asn Ser Arg Asp Ala Lys Gly Arg Thr Pro Leu His Ala			
850	855	860	
Ala Ala Phe Ala Asp Asn Val Ser Gly Leu Arg Met Leu Leu Gln His			
865	870	875	880
Gln Ala Glu Val Asn Ala Thr Asp His Thr Gly Arg Thr Ala Leu Met			
885	890	895	
Thr Ala Ala Glu Asn Gly Gln Thr Ala Ala Val Glu Phe Leu Leu Tyr			
900	905	910	
Arg Gly Lys Ala Asp Leu Thr Val Leu Asp Glu Asn Lys Asn Thr Ala			
915	920	925	
Leu His Leu Ala Cys Ser Lys Gly His Glu Lys Cys Ala Leu Met Ile			
930	935	940	
Leu Ala Glu Thr Gln Asp Leu Gly Leu Ile Asn Ala Thr Asn Ser Ala			
945	950	955	960
Leu Gln Met Pro Leu His Ile Ala Ala Arg Asn Gly Leu Ala Ser Val			
965	970	975	
Val Gln Ala Leu Leu Ser His Gly Ala Thr Val Leu Ala Val Asp Glu			

980 985 990
 Glu Gly His Thr Pro Ala Leu Ala Cys Ala Pro Asn Lys Asp Val Ala
 995 1000 1005
 Asp Cys Leu Ala Leu Ile Leu Ser Thr Met Lys Pro Phe Pro Pro Lys
 1010 1015 1020
 Asp Ala Val Ser Pro Phe Ser Phe Ser Leu Leu Lys Asn Cys Ser Ile
 1025 1030 1035 1040
 Ala Ala Ala Lys Thr Val Gly Gly Cys Gly Ala Leu Pro His Gly Ala
 1045 1050 1055
 Ser Cys Pro Tyr Ser Gln Glu Arg Pro Gly Ala Ile Gly Leu Asp Gly
 1060 1065 1070
 Cys Tyr Ser Glu
 1075

<210> 3261

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3261

Met His Ser Pro Arg Thr Gln Ile Ile Trp Phe Cys Phe Thr Lys Ser
 1 5 10 15
 Lys Cys Ser Thr Cys Ile Ser Leu Phe Gln Thr Glu Met Ala Ile Lys
 20 25 30
 His Val Phe Gln Lys Val Phe Ala Gly Glu Lys Met Arg Lys Val Lys
 35 40 45
 Glu Ser Phe Pro Asp Pro Asp Leu Arg Arg Lys Gly Glu Asp Thr Phe
 50 55 60
 Cys Phe Val Ala Tyr Leu Leu Trp Ala Lys Ser Tyr Tyr Cys Leu Arg
 65 70 75 80
 Glu Val Arg Leu Thr Leu Ala His Pro Trp Gly Ile Ser Cys Ala Cys
 85 90 95
 Gly Gly Glu Thr Asn Gln Val Gly Asn Asn Ser Phe Ser Pro Tyr Leu
 100 105 110
 Ser Ser Phe His Val Leu Leu Trp Asn Lys Ser Asp

115

120

<210> 3262

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3262

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Met Val Leu Leu Leu Phe Cys Cys Cys Leu Arg Arg Ser Phe Val Leu
  1             5             10             15
Val Ala Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Ser Ser
      20             25             30
Pro Gln Pro Pro Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu
      35             40             45
Pro Ser Ser Trp Asp Tyr Arg His Val Pro Pro Pro His Pro Ala Asn
      50             55             60
Phe Val Phe Leu Val Glu Thr Gly Phe Leu His Val Asp Gln Ala Gly
      65             70             75             80
Leu Glu Pro Pro Thr Ser Gly Val Pro Pro Thr Ser Ala Phe Gln Ser
      85             90             95
Ala Gly Ile Thr Gly Met Ser His Pro Ala Asn Glu Trp Phe Leu Lys
      100            105            110
Gln Lys Ser Gln
      115

```

<210> 3263

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3263

```

Met Gly Met Leu Ser Leu Gly Glu Pro Glu Lys Ala Ser Leu Arg Arg
  1             5             10             15

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<210> 3264
<211> 244
<212> PRT
<213> Homo sapiens

<211> 244

<213> Homo sapiens

Arg	Arg	Asp	Thr	Asp	Ser	Asp	Thr	Gln	Asp	Ala	Asn	Asp	Ser	Ser	Cys
20				25				30							
Lys	Ser	Ser	Glu	Arg	Ser	Leu	Pro	Asp	Cys	Thr	Leu	His	Pro	Asn	Ser
35				40				45							
Ile	Ser	Ile	Asp	Ala	Gly	Pro	Arg	Gln	Ala	Pro	Lys	Ile	Ala	Gln	Ile
50				55				60							
Lys	Arg	Asn	Leu	Ser	Tyr	Gly	Asp	Asn	Ser	Asp	Pro	Ala	Leu	Glu	Ala
65				70				75				80			
Ser	Ser	Leu	Pro	Pro	Pro	Asp	Pro	Trp	Leu	Glu	Thr	Ser	Ser	Ser	Ser
85				90				95							
Pro	Ala	Glu	Pro	Ala	Gln	Pro	Gly	Ala	Cys	Arg	Arg	Asp	Gly	Tyr	Trp
100				105				110							

Met	Ala	Pro	Ser	Ser	Glu	Ser	Ser	Val	Pro	Ser	His	Ser	Met	Ser	Ser
1				5					10					15	
Arg	Arg	Asp	Thr	Asp	Ser	Asp	Thr	Gln	Asp	Ala	Asn	Asp	Ser	Ser	Cys
			20					25					30		
Lys	Ser	Ser	Glu	Arg	Ser	Leu	Pro	Asp	Cys	Thr	Leu	His	Pro	Asn	Ser
			35				40					45			
Ile	Ser	Ile	Asp	Ala	Gly	Pro	Arg	Gln	Ala	Pro	Lys	Ile	Ala	Gln	Ile
	50					55					60				
Lys	Arg	Asn	Leu	Ser	Tyr	Gly	Asp	Asn	Ser	Asp	Pro	Ala	Leu	Glu	Ala
65				70						75				80	
Ser	Ser	Leu	Pro	Pro	Pro	Asp	Pro	Trp	Leu	Glu	Thr	Ser	Ser	Ser	Ser
			85						90					95	
Pro	Ala	Glu	Pro	Ala	Gln	Pro	Gly	Ala	Cys	Arg	Arg	Asp	Gly	Tyr	Trp
			100					105					110		

Phe	Leu	Lys	Leu	Leu	Gln	Ala	Glu	Thr	Glu	Arg	Leu	Glu	Gly	Trp	Cys	
115					120					125						
Cys	Gln	Met	Asp	Lys	Glu	Thr	Lys	Glu	Asn	Asn	Leu	Ser	Glu	Glu	Val	
130					135					140						
Leu	Gly	Lys	Val	Leu	Ser	Ala	Val	Gly	Ser	Ala	Gln	Leu	Leu	Met	Ser	
145					150					155					160	
Gln	Lys	Phe	Gln	Gln	Phe	Arg	Gly	Leu	Cys	Glu	Gln	Asn	Leu	Asn	Pro	
165					170					175						
Asp	Ala	Asn	Pro	Arg	Pro	Thr	Ala	Gln	Asp	Leu	Ala	Gly	Phe	Trp	Asp	
180					185					190						
Leu	Leu	Gln	Leu	Ser	Ile	Glu	Asp	Ile	Ser	Met	Lys	Phe	Asp	Glu	Leu	
195					200					205						
Tyr	His	Leu	Lys	Ala	Asn	Ser	Trp	Gln	Leu	Val	Glu	Thr	Pro	Glu	Lys	
210					215					220						
Arg	Lys	Val	Ser	Met	Glu	Gln	Cys	Gly	Gly	Glu	Val	Gln	Gly	Gln	Ile	
225					230					235					240	
Pro Gly Arg Gln																

<210> 3265

<211> 817

<212> PRT

<213> Homo sapiens

<400> 3265

Met	Thr	Ser	Ala	Ala	His	Ser	Glu	Asn	Tyr	Ser	Pro	Ala	Ser	Met	Val
1				5					10					15	
Thr	Glu	Val	Leu	Trp	Ile	Leu	Ser	Asp	Gln	Lys	Glu	Cys	Ala	Val	Glu
			20					25					30		
Cys	Leu	Tyr	Asn	Asn	Ile	Val	Ile	Glu	Thr	Leu	Leu	Gln	Pro	Ile	His
			35					40					45		
Asn	Leu	Met	Lys	Gly	Asn	Glu	Ala	Ser	Pro	Asn	Cys	Ser	Glu	Thr	Ala
		50					55				60				
Leu	Ile	His	Ile	Ala	Gly	Ile	Leu	Val	Arg	Ile	Ala	Ser	Val	Glu	Glu
65					70						75				80

Gly	Leu	Ile	Leu	Leu	Leu	Tyr	Gly	Ala	Asn	Met	Asn	Ser	Ser	Glu	Glu	
			85						90						95	
Ser	Pro	Thr	Gly	Ala	His	Ile	Ile	Ala	Gln	Phe	Ser	Lys	Lys	Leu	Leu	
			100						105						110	
Asp	Glu	Asp	Ile	Ser	Ile	Phe	Ser	Gly	Ser	Glu	Met	Leu	Pro	Val	Val	
			115						120						125	
Lys	Gly	Ala	Phe	Ile	Ser	Val	Cys	Arg	His	Ile	Tyr	Ser	Thr	Cys	Glu	
			130						135						140	
Gly	Leu	Gln	Val	Leu	Ile	Thr	Tyr	Asn	Leu	His	Glu	Ser	Ile	Ala	Lys	
145						150						155			160	
Ala	Trp	Lys	Lys	Thr	Ser	Leu	Leu	Ser	Glu	Arg	Ile	Pro	Thr	Pro	Val	
			165						170						175	
Glu	Gly	Ser	Asp	Ser	Val	Ser	Ser	Val	Ser	Gln	Glu	Ser	Gln	Asn	Ile	
			180						185						190	
Met	Ala	Trp	Glu	Asp	Asn	Leu	Leu	Asp	Asp	Leu	Leu	His	Phe	Ala	Ala	
			195						200						205	
Thr	Pro	Lys	Gly	Leu	Leu	Leu	Leu	Gln	Arg	Thr	Gly	Ala	Ile	Asn	Glu	
210						215						220				
Cys	Val	Thr	Phe	Ile	Phe	Asn	Arg	Tyr	Ala	Lys	Lys	Leu	Gln	Val	Ser	
225						230						235			240	
Arg	His	Lys	Lys	Phe	Gly	Tyr	Gly	Val	Leu	Val	Thr	Arg	Val	Ala	Ser	
			245						250						255	
Thr	Ala	Ala	Gly	Gly	Ile	Ala	Leu	Lys	Lys	Ser	Gly	Phe	Ile	Asn	Glu	
			260						265						270	
Leu	Ile	Thr	Glu	Leu	Trp	Ser	Asn	Leu	Glu	Tyr	Gly	Arg	Asp	Asp	Val	
275						280						285				
Arg	Val	Thr	His	Pro	Arg	Thr	Thr	Pro	Val	Asp	Pro	Ile	Asp	Arg	Ser	
290						295						300				
Cys	Gln	Lys	Ser	Phe	Leu	Ala	Leu	Val	Asn	Leu	Leu	Ser	Tyr	Pro	Ala	
305						310						315			320	
Ile	Tyr	Glu	Leu	Val	Arg	Asn	Gln	Asp	Leu	Pro	Asn	Lys	Thr	Glu	Tyr	
			325						330						335	
Ser	Leu	Arg	Glu	Val	Pro	Thr	Cys	Val	Ile	Asp	Ile	Ile	Asp	Arg	Leu	
			340						345						350	
Ile	Ile	Leu	Asn	Ser	Glu	Ala	Lys	Ile	Arg	Ser	Leu	Phe	Asn	Tyr	Glu	
355						360						365				

Gln Ser His Ile Phe Gly Leu Arg Leu Leu Ser Val Ile Cys Cys Asp
 370 375 380
 Leu Asp Thr Leu Leu Leu Leu Glu Ala Gln Tyr Gln Val Ser Glu Met
 385 390 395 400
 Leu Leu Asn Ala Gln Glu Glu Asn Ile Leu Glu Ile Ser Glu Ser His
 405 410 415
 Arg Asp Phe Ile Ile Asp Gly Leu Ser Val Glu Arg Asn His Val Leu
 420 425 430
 Val Arg Ile Asn Leu Val Gly Gly Pro Leu Glu Arg Ile Leu Pro Pro
 435 440 445
 Arg Leu Leu Glu Lys Ser Asp Asn Pro Tyr Pro Trp Pro Met Phe Ser
 450 455 460
 Ser Tyr Pro Leu Pro Asn Cys Tyr Leu Ser Asp Ile Thr Arg Asn Ala
 465 470 475 480
 Gly Ile Lys Gln Asp Asn Asp Leu Asp Lys Leu Leu Leu Cys Leu Lys
 485 490 495
 Ile Ser Asp Lys Gln Thr Glu Trp Ile Glu Asn Cys Gln Arg Gln Phe
 500 505 510
 Cys Lys Met Met Lys Ala Lys Pro Asp Ile Ile Ser Gly Glu Ala Leu
 515 520 525
 Ile Glu Leu Leu Glu Lys Phe Val Leu His Leu Thr Glu Ser Pro Ser
 530 535 540
 Glu Cys Tyr Phe Pro Ser Val Glu Tyr Thr Ala Thr Asp Ala Asn Val
 545 550 555 560
 Lys Asn Glu Ser Leu Ser Ser Val Gln Gln Leu Gly Ile Lys Met Thr
 565 570 575
 Val Arg Tyr Gly Lys Phe Leu Ser Leu Leu Lys Asp Gly Ala Glu Asn
 580 585 590
 Asp Leu Thr Trp Val Leu Lys His Cys Glu Arg Phe Leu Lys Gln Gln
 595 600 605
 Gln Thr Ser Ile Lys Ser Ser Leu Leu Cys Leu Gln Gly Asn Tyr Ala
 610 615 620
 Gly His Asp Trp Phe Val Ser Ser Leu Phe Met Ile Met Leu Gly Asp
 625 630 635 640
 Lys Glu Lys Thr Phe Gln Phe Leu His Gln Phe Ser Arg Leu Leu Thr
 645 650 655

Ser	Ala	Phe	Leu	Trp	Leu	Pro	Arg	Leu	His	Ile	Ser	Ser	Tyr	Leu	Pro
660					665					670					
Asn	Asp	Thr	Val	Glu	Ser	Gly	Ile	His	Pro	Val	Tyr	Phe	Cys	Ser	Thr
675					680					685					
His	Tyr	Ile	Glu	Met	Leu	Leu	Lys	Ala	Glu	Leu	Pro	Leu	Val	Phe	Ser
690					695					700					
Ala	Phe	His	Met	Ser	Gly	Phe	Ala	Pro	Ser	Gln	Ile	Cys	Leu	Gln	Trp
705					710					715					720
Ile	Thr	Gln	Cys	Phe	Trp	Asn	Tyr	Leu	Asp	Trp	Ile	Glu	Ile	Cys	His
725					730					735					
Tyr	Ile	Ala	Thr	Cys	Val	Phe	Leu	Gly	Pro	Asp	Tyr	Gln	Val	Tyr	Ile
740					745					750					
Cys	Ile	Ala	Val	Phe	Lys	His	Leu	Gln	Gln	Asp	Ile	Leu	Gln	His	Thr
755					760					765					
Gln	Ala	Gln	Asp	Leu	Gln	Val	Phe	Leu	Lys	Glu	Glu	Ala	Leu	His	Gly
770					775					780					
Phe	Arg	Val	Ser	Asp	Tyr	Phe	Glu	Tyr	Met	Glu	Ile	Leu	Glu	Gln	Asn
785					790					795					800
Tyr	Arg	Thr	Val	Leu	Leu	Arg	Asp	Met	Arg	Asn	Ile	Arg	Leu	Gln	Ser
805					810					815					
Thr															

<210> 3266

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3266

Met Phe Ser His Leu Gln Ile Phe Val Phe Pro Gln Thr Lys Arg Lys
1 5 10 15
Lys Thr Thr Leu Tyr Ser Leu Phe Tyr Ser Val Thr Leu Leu Cys Tyr
20 25 30
Val Arg Asn Leu Lys Tyr Ile Gly Asp Val Gly Ile Leu Ser Leu Thr
35 40 45

Ala His Cys Thr Gly Gln Glu Ser Thr Val Phe Gln Leu Glu Phe Arg
 50 55 60
 Thr Pro Gly Phe Glu Val Glu Asp Asp His Cys Ser Thr Trp Phe Gly
 65 70 75 80
 Ile Ala Thr Gly Val Ala Lys Pro Lys Glu Gly Tyr Ile Arg Lys Gly
 85 90 95
 Gly Val Arg Arg Gln Asn Lys Glu Lys Glu Glu Trp Val Phe Tyr Leu
 100 105 110
 Phe Ser Phe Ile Asn
 115

<210> 3267

<211> 147

<212> PRT

<213> Homo sapiens

<400> 3267

Met Phe Arg Phe His Thr Lys Lys Glu His Thr Phe Thr Ile Phe Ser
 1 5 10 15
 Gly Gly Cys Leu Leu Leu His Trp Gln Ala Gly Thr Glu Phe Phe Leu
 20 25 30
 His Asp Lys Ser Gly Gly Leu Leu Val Arg Glu Pro Met Gly Ile Phe
 35 40 45
 Ser Trp Lys Glu Tyr Ser Ser Ile Pro Ser Pro Asn Pro Thr Val Ile
 50 55 60
 Phe Ile Thr Leu Gly Gln Gly Cys Ile Glu Cys Val Cys Val Cys Val
 65 70 75 80
 Cys Val Cys Val Cys Val Cys Val Arg Val Gly Val Val Leu Gly His
 85 90 95
 Leu Trp Pro Val Thr Lys Val Thr Arg Thr Ile Cys Val Pro Ala Val
 100 105 110
 Ile Ala Cys Asp Cys Gly Cys Ile Ser Ser Leu Pro Arg Ser Leu Val
 115 120 125
 Thr Leu Ser Ala His Gln Gly Arg Glu Leu Ser Thr Asp Thr Cys Gln
 130 135 140

Gly Pro Leu

145

<210> 3268

<211> 797

<212> PRT

<213> Homo sapiens

<400> 3268

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Met Ala Ala Leu Ala Tyr Asn Leu Gly Lys Arg Glu Ile Asn His Tyr
  1             5             10             15
Phe Ser Val Arg Ser Ala Lys Val Leu Ala Leu Val Ala Val Leu Leu
      20             25             30
Leu Ala Ala Cys His Leu Ala Ser Arg Arg Tyr Arg Gly Asn Asp Ser
      35             40             45
Cys Glu Tyr Leu Leu Ser Ser Gly Arg Phe Leu Gly Glu Lys Val Trp
      50             55             60
Gln Pro His Ser Cys Met Met His Lys Tyr Lys Ile Ser Glu Ala Lys
      65             70             75             80
Asn Cys Leu Val Asp Lys His Ile Ala Phe Ile Gly Asp Ser Arg Ile
      85             90             95
Arg Gln Leu Phe Tyr Ser Phe Val Lys Ile Ile Asn Pro Gln Phe Lys
      100            105            110
Glu Glu Gly Asn Lys His Glu Asn Ile Pro Phe Glu Asp Lys Thr Ala
      115            120            125
Ser Val Lys Val Asp Phe Leu Trp His Pro Glu Val Asn Gly Ser Met
      130            135            140
Lys Gln Cys Ile Lys Val Trp Thr Glu Asp Ser Ile Ala Lys Pro His
      145            150            155            160
Val Ile Val Ala Gly Ala Ala Thr Trp Ser Ile Lys Ile His Asn Gly
      165            170            175
Ser Ser Glu Ala Leu Ser Gln Tyr Lys Met Asn Ile Thr Ser Ile Ala
      180            185            190
Pro Leu Leu Glu Lys Leu Ala Lys Thr Ser Asp Val Tyr Trp Val Leu
      195            200            205

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Gln Asp Pro Val Tyr Glu Asp Leu Leu Ser Glu Asn Arg Lys Met Ile
 210 215 220
 Thr Asn Glu Lys Ile Asp Ala Tyr Asn Glu Ala Ala Val Ser Ile Leu
 225 230 235 240
 Asn Ser Ser Thr Arg Asn Ser Lys Ser Asn Val Lys Met Phe Ser Val
 245 250 255
 Ser Lys Leu Ile Ala Gln Glu Thr Ile Met Glu Ser Leu Asp Gly Leu
 260 265 270
 His Leu Pro Glu Ser Ser Arg Glu Thr Thr Ala Met Ile Leu Met Asn
 275 280 285
 Val Tyr Cys Asn Lys Ile Leu Lys Pro Val Asp Gly Ser Cys Cys Gln
 290 295 300
 Pro Arg Pro Pro Val Thr Leu Ile Gln Lys Leu Ala Ala Cys Phe Phe
 305 310 315 320
 Thr Leu Ser Ile Ile Gly Tyr Leu Ile Phe Tyr Ile Ile His Arg Asn
 325 330 335
 Ala His Arg Lys Asn Lys Pro Cys Thr Asp Leu Glu Ser Gly Glu Glu
 340 345 350
 Lys Lys Asn Ile Ile Asn Thr Pro Val Ser Ser Leu Glu Ile Leu Leu
 355 360 365
 Gln Ser Phe Cys Lys Leu Gly Leu Ile Met Ala Tyr Phe Tyr Met Cys
 370 375 380
 Asp Arg Ala Asn Leu Phe Met Lys Glu Asn Lys Phe Tyr Thr His Ser
 385 390 395 400
 Ser Phe Phe Ile Pro Ile Ile Tyr Ile Leu Val Leu Gly Val Phe Tyr
 405 410 415
 Asn Glu Asn Thr Lys Glu Thr Lys Val Leu Asn Arg Glu Gln Thr Asp
 420 425 430
 Glu Trp Lys Gly Trp Met Gln Leu Val Ile Leu Ile Tyr His Ile Ser
 435 440 445
 Gly Ala Ser Thr Phe Leu Pro Val Tyr Met His Ile Arg Val Leu Val
 450 455 460
 Ala Ala Tyr Leu Phe Gln Thr Gly Tyr Gly His Phe Ser Tyr Phe Trp
 465 470 475 480
 Ile Lys Gly Asp Phe Gly Ile Tyr Arg Val Cys Gln Val Leu Phe Arg
 485 490 495

Leu Asn Phe Leu Val Val Val Leu Cys Ile Val Met Asp Arg Pro Tyr
 500 505 510
 Gln Phe Tyr Tyr Phe Val Pro Leu Val Thr Val Trp Phe Met Val Ile
 515 520 525
 Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys Lys Ala Asn
 530 535 540
 Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu Gly Phe Leu
 545 550 555 560
 Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala Phe Glu Lys
 565 570 575
 Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu Lys Gly Asn
 580 585 590
 Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr Val Val Phe
 595 600 605
 His Gly Met Leu Phe Ala Phe Ile Tyr Leu Ala Leu Gln Lys Arg Gln
 610 615 620
 Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn Lys Ile Ser
 625 630 635 640
 Asn Phe Leu Leu Phe Ile Ser Val Val Ser Phe Leu Thr Tyr Ser Ile
 645 650 655
 Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu Leu His Pro
 660 665 670
 Ser Val Ser Val Val Gln Ile Leu Ala Phe Ile Leu Ile Arg Asn Ile
 675 680 685

 Pro Gly Tyr Ala Arg Ser Val Tyr Ser Ser Phe Phe Ala Trp Phe Gly
 690 695 700
 Lys Ile Ser Leu Glu Leu Phe Ile Cys Gln Tyr His Ile Trp Leu Ala
 705 710 715 720
 Ala Asp Thr Arg Gly Ile Leu Val Leu Ile Pro Gly Asn Pro Met Leu
 725 730 735
 Asn Ile Ile Val Ser Thr Phe Ile Phe Val Cys Val Ala His Glu Ile
 740 745 750
 Ser Gln Ile Thr Asn Asp Leu Ala Gln Ile Ile Ile Pro Lys Asp Asn
 755 760 765
 Ser Ser Leu Leu Lys Arg Leu Ala Cys Ile Ala Ala Phe Phe Cys Gly

770 775 780
 Leu Leu Ile Leu Ser Ser Ile Gln Asp Lys Ser Lys His
 785 790 795

<210> 3269

<211> 763

<212> PRT

<213> Homo sapiens

<400> 3269

Met His Ser Ser Gln Asn Val Gln Thr Gln Glu Ser Ser Ser Pro Gln
 1 5 10 15
 Ser Gln Lys Phe Leu Pro Ala Val Gln Ser Ser Ser Phe Ala Ser Ser
 20 25 30
 Thr His Cys Gln Thr Leu Gln Asn Asn Ile Thr Ser Pro Asp Pro Lys
 35 40 45
 Ser Tyr Ala Glu Arg Lys Leu Asp Ser Asp Val Tyr Pro Ser Ser Lys
 50 55 60
 Gln Glu Asp Gly Phe Pro Met Gln Glu Leu Gln Val Leu Gln Pro Gln
 65 70 75 80
 Ala Ser Leu Glu Ser Ser Thr Gln Arg Leu Ser Asp Gly Glu Ile Asn
 85 90 95
 Ala Gln Glu Ser Thr Tyr Lys Val Ser Lys Ala Asp Asp Arg Tyr Ser
 100 105 110
 Gln Ser Val Ile Arg Ser Asn Ser Arg Leu Glu Asp Gln Val Ile Gly
 115 120 125
 Val Ala Leu Gln Ala Ser Lys Lys Glu Glu Ser Val Val Gly Ser Val
 130 135 140
 Thr Gln Leu Asn Gln Gln Ile Gly Gln Val Asn Asn Ala Ala Thr Leu
 145 150 155 160
 Asp Leu Lys Asn Ser Thr Asn Leu Ile Gln Thr Pro Gln Ile Arg Leu
 165 170 175
 Asn Thr Lys Asp Leu Lys Gln Gln His Pro Leu Ile Leu Lys Val His
 180 185 190
 Glu Ser Lys Val Gln Glu Gln His Asp Gln Ile Ile Asn Ala Ser Ser

195	200	205
Gln Ile Gln Ile Pro Asn His Ala Leu Gly His Gly His Gln Ala Ser		
210	215	220
Leu Pro Asn Thr Gln Val Leu Leu Asp Ser Ala Cys Asp Leu Gln Ile		
225	230	235
Leu Gln Gln Ser Ile Leu Gln Ala Gly Leu Gly Gln Val Lys Ala Ser		
245	250	255
Leu Gln Ala Gln Arg Val Gln Ser Pro Gln Gln Ile Val His Pro Phe		
260	265	270
Leu Gln Met Glu Gly His Val Ile Gln Ser Asn Gly Asp His Ser Gln		
275	280	285
Gln Gln Leu His Pro Gln Asn Ser Glu Val Met Lys Met Asp Leu Ser		
290	295	300
Glu Ser Ser Lys Pro Leu Gln Gln His Leu Thr Thr Lys Gly His Phe		
305	310	315
Ser Glu Thr Asn Gln His Asp Ser Lys Asn Gln Phe Val Ser Leu Gly		
325	330	335
Ser Met Cys Phe Pro Glu Ala Val Leu Leu Ser Asp Glu Arg Asn Ile		
340	345	350
Leu Ser Asn Val Asp Asp Ile Leu Ala Ala Thr Ala Ala Ala Cys Gly		
355	360	365
Val Thr Pro Thr Asp Phe Ser Lys Ser Thr Ser Asn Glu Thr Met Gln		
370	375	380
Ala Val Glu Asp Gly Asp Ser Lys Ser His Phe Gln Gln Ser Leu Asp		
385	390	395
Val Arg His Val Thr Ser Asp Phe Asn Ser Met Thr Ala Thr Val Gly		
405	410	415
Lys Pro Gln Asn Ile Asn Asp Thr Ser Leu Asn Gly Asn Gln Val Thr		
420	425	430
Val Asn Leu Ser Pro Val Pro Ala Leu Gln Ser Lys Met Thr Leu Asp		
435	440	445
Gln Gln His Ile Glu Thr Pro Gly Gln Asn Ile Pro Thr Lys Val Thr		
450	455	460
Ser Ala Val Val Gly Pro Ser His Glu Val Gln Glu Gln Ser Ser Gly		
465	470	475
Pro Phe Lys Lys Gln Ser Ala Thr Asn Leu Glu Ser Glu Glu Asp Ser		

				485				490				495			
Glu	Ala	Pro	Val	Asp	Ser	Thr	Leu	Asn	Asn	Asn	Arg	Asn	Gln	Glu	Phe
500				505				510							
Val	Ser	Ser	Ser	Arg	Ser	Ile	Ser	Gly	Glu	Ser	Ala	Thr	Ser	Glu	Ser
515				520				525							
Glu	Phe	Thr	Leu	Gly	Gly	Asp	Asp	Ser	Gly	Val	Ser	Met	Asn	Pro	Ala
530				535				540							
Arg	Ser	Ala	Leu	Ala	Leu	Leu	Ala	Met	Ala	Gln	Ser	Gly	Asp	Ala	Val
545				550				555				560			
Ser	Val	Lys	Ile	Glu	Glu	Glu	Asn	Gln	Asp	Leu	Met	His	Phe	Asn	Leu
565				570				575							
Gln	Lys	Lys	Gly	Ala	Lys	Gly	Lys	Gly	Gln	Val	Lys	Glu	Glu	Asp	Asn
580				585				590							
Ser	Asn	Gln	Lys	Gln	Leu	Lys	Arg	Pro	Ala	Gln	Gly	Lys	Arg	Gln	Asn
595				600				605							
Pro	Arg	Gly	Thr	Asp	Ile	Tyr	Leu	Pro	Tyr	Thr	Pro	Pro	Ser	Ser	Glu
610				615				620							
Ser	Cys	His	Asp	Gly	Tyr	Gln	His	Gln	Glu	Lys	Met	Arg	Gln	Lys	Ile
625				630				635				640			
Lys	Glu	Val	Glu	Glu	Lys	Gln	Pro	Glu	Val	Lys	Thr	Gly	Phe	Ile	Ala
645				650				655							
Ser	Phe	Leu	Asp	Phe	Leu	Lys	Ser	Gly	Pro	Lys	Gln	Gln	Phe	Ser	Thr
660				665				670							
Leu	Ala	Val	Arg	Met	Pro	Asn	Arg	Thr	Arg	Arg	Pro	Gly	Thr	Gln	Met
675				680				685							
Val	Arg	Thr	Phe	Cys	Pro	Pro	Pro	Leu	Pro	Lys	Pro	Ser	Ser	Thr	Thr
690				695				700							
Pro	Thr	Pro	Leu	Val	Ser	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Ser	Asp	Lys
705				710				715				720			
Val	Asp	Asn	Glu	Leu	Lys	Asn	Leu	Glu	His	Leu	Ser	Ser	Phe	Ser	Ser
725				730				735							
Asp	Glu	Asp	Asp	Pro	Gly	Tyr	Ser	Gln	Asp	Ala	Tyr	Lys	Ser	Val	Pro
740				745				750							
Thr	Pro	Leu	Thr	Thr	Leu	Asp	Ala	Thr	Ser	Glu					
755				760											

<210> 3270

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3270

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Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Val Ala Asn Lys His
 1             5             10            15
Ile Lys Lys Ser Ser Thr Leu Leu Ile Ile Arg Glu Met Gln Arg Arg
      20             25            30
Thr Thr Met Arg Tyr His Leu Met Pro Val Arg Met Val Ile Ile Lys
      35             40            45
Lys Ser Lys Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Val Gly Thr
      50             55            60
Leu Leu His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Leu Trp Lys
      65             70            75            80
Cys Val Trp Leu Phe Leu Lys Asp Leu Glu Leu Glu Ile Leu Phe Val
      85             90            95
Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Glu Tyr Lys Pro Phe
      100            105            110
Tyr Tyr Lys Asp Thr Cys Thr Phe Leu Phe Ile Ala Ala Leu Phe Thr
      115            120            125
Ile Ala Lys Thr Gln
      130

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<210> 3271

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3271

```

Met Ala Ser Thr Ala Ala Asn Leu Leu Ala Asn Tyr Asn His Ser Cys
 1             5             10            15
Ser Ser Ser Ile Arg Leu Glu Lys Thr Arg Phe Pro Ser Gly Leu Gly

```

	20		25		30										
Ala	Phe	Ser	Ser	Ser	Arg	Glu	Thr	His	Gln	Pro	Ser	Ala	Cys	Val	Ala
	35		40		45										
Cys	Ala	Pro	Gly	Ala	Phe	Leu	Leu	Ile	Arg	Ser	Met	Ile	Ser	Ala	Trp
	50		55		60										
Leu	Gln	Gly	Pro	Ala	Lys	Ser	Val	Arg	Glu	Pro	Pro	Asn	Gly	Ala	Arg
	65		70		75										80
Ser	Arg	Arg	Ile	Ser	Arg	Ser	Glu	Thr	Ser	Leu	Ser	Pro	His	Leu	Leu
			85		90									95	
Thr	Gly	Asn	Leu	Gly	Gly	Phe	Gln	Leu	Met	Phe	Phe	Ser	Pro		
	100		105		110										

<210> 3272

<211> 332

<212> PRT

<213> Homo sapiens

<400> 3272

Met	Ala	Thr	Ile	Lys	Ser	Glu	Leu	Ile	Lys	Asn	Phe	Ala	Glu	Glu	Glu
1			5				10					15			
Ala	Ile	His	His	Asn	Lys	Ile	Ser	Ile	Val	Gly	Thr	Gly	Ser	Val	Gly
		20				25					30				
Val	Ala	Cys	Ala	Ile	Ser	Ile	Leu	Leu	Lys	Gly	Leu	Ser	Asp	Glu	Leu
	35					40					45				
Val	Leu	Val	Asp	Val	Asp	Glu	Gly	Lys	Leu	Lys	Gly	Glu	Thr	Met	Asp
	50					55					60				
Leu	Gln	His	Gly	Ser	Pro	Phe	Met	Lys	Met	Pro	Asn	Ile	Val	Ser	Ser
	65				70					75					80
Lys	Asp	Tyr	Leu	Val	Thr	Ala	Asn	Ser	Asn	Leu	Val	Ile	Ile	Thr	Ala
			85						90					95	
Gly	Ala	Arg	Gln	Lys	Lys	Gly	Glu	Thr	Arg	Leu	Asp	Leu	Val	Gln	Arg
	100						105					110			
Asn	Val	Ser	Ile	Phe	Lys	Leu	Met	Ile	Pro	Asn	Ile	Thr	Gln	Tyr	Ser
	115					120						125			
Pro	His	Cys	Lys	Leu	Leu	Ile	Val	Thr	Asn	Pro	Val	Asp	Ile	Leu	Thr

130	135	140	
Tyr Val Ala Trp Lys Leu Ser Gly Phe Pro Lys Asn Arg Val Ile Gly			
145	150	155	160
Ser Gly Cys Asn Leu Asp Ser Ala Arg Phe Arg Tyr Phe Ile Gly Gln			
	165	170	175
Arg Leu Gly Ile His Ser Glu Ser Cys His Gly Leu Ile Leu Gly Glu			
	180	185	190
His Gly Asp Ser Ser Val Pro Val Trp Ser Gly Val Asn Ile Ala Gly			
	195	200	205
Val Pro Leu Lys Asp Leu Asn Pro Asp Ile Gly Thr Asp Lys Asp Pro			
	210	215	220
Glu Gln Trp Glu Asn Val His Lys Lys Val Ile Ser Ser Gly Tyr Glu			
225	230	235	240
Met Val Lys Met Lys Gly Tyr Thr Ser Trp Gly Ile Ser Leu Ser Val			
	245	250	255
Ala Asp Leu Thr Glu Ser Ile Leu Lys Asn Leu Arg Arg Val His Pro			
	260	265	270
Val Ser Thr Leu Ser Lys Gly Leu Tyr Gly Ile Asn Glu Asp Ile Phe			
	275	280	285
Leu Ser Val Pro Cys Ile Leu Gly Glu Asn Gly Ile Thr Asp Leu Ile			
	290	295	300
Lys Val Lys Leu Thr Leu Glu Glu Glu Ala Cys Leu Gln Lys Ser Ala			
305	310	315	320
Glu Thr Leu Trp Glu Ile Gln Lys Glu Leu Lys Leu			
	325	330	

<210> 3273

<211> 188

<212> PRT

<213> Homo sapiens

<400> 3273

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
1 5 10 15
Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp

	20		25		30										
Ser	Lys	Asp	Glu	Glu	Val	Lys	Val	Ala	Pro	Arg	Arg	Ser	Phe	Leu	Asp
	35		40		45										
Phe	Asp	Pro	His	His	Phe	Trp	Gln	Trp	Ser	Ser	Phe	Ser	Asp	Tyr	Val
	50		55		60										
Gln	Cys	Val	Leu	Ala	Phe	Thr	Gly	Val	Ala	Gly	Tyr	Ile	Thr	Tyr	Leu
65			70		75				80						
Ser	Ile	Asp	Ser	Ala	Leu	Phe	Val	Glu	Thr	Leu	Gly	Phe	Leu	Ala	Val
	85		90		95										
Leu	Thr	Glu	Ala	Met	Leu	Gly	Val	Pro	Gln	Leu	Tyr	Arg	Asn	His	Arg
	100		105		110										
His	Gln	Ser	Thr	Glu	Gly	Met	Ser	Ile	Lys	Met	Val	Leu	Met	Trp	Thr
	115		120		125										
Ser	Gly	Asp	Ala	Phe	Lys	Thr	Ala	Tyr	Phe	Leu	Leu	Lys	Gly	Ala	Pro
	130		135		140										
Leu	Gln	Phe	Ser	Val	Cys	Gly	Leu	Leu	Gln	Val	Leu	Val	Asp	Leu	Ala
145			150		155				160						
Ile	Leu	Gly	Gln	Ala	Tyr	Ala	Phe	Ala	Arg	His	Pro	Gln	Lys	Pro	Ala
	165		170		175										
Pro	His	Ala	Val	His	Pro	Thr	Gly	Thr	Lys	Ala	Leu				
	180		185												

<210> 3274

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3274

Met	Phe	Phe	Phe	Val	Glu	Met	Gly	Phe	Tyr	His	Val	Gly	Gln	Ala	Gly
1			5		10		15								
Leu	Glu	Leu	Leu	Thr	Ser	Gly	Asp	Pro	Pro	Thr	Ser	Ala	Ser	Gln	Ser
	20		25		30										
Ala	Gly	Ile	Thr	Gly	Val	Ser	His	Tyr	Ala	Arg	Pro	Ala	Ala	Ala	Gly
	35		40		45										
Phe	Thr	Asn	Phe	Leu	Pro	Thr	Ala	Gly	Ala	Thr	Phe	Tyr	Ser	Lys	Glu

50 55 60
 Arg Asn Ser Asp His Cys Leu Cys Ser Leu Gly Phe Phe Pro Thr Leu
 65 70 75 80
 Ser Asn Gly Ile His Gln Phe His Ser Arg Met Ser Ser Leu Val Leu
 85 90 95
 Gly Leu Glu Asn Trp Ala Trp Leu Met Asp
 100 105

<210> 3275

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3275

Met Glu Leu Ala Ile Trp Tyr Val Gln Gln Pro Ser Leu Arg Ile Ala
 1 5 10 15
 Lys Cys Ile Gly Asn Ile Phe Gln Ala Val Thr Pro Val Thr Ser Lys
 20 25 30
 Gln Arg Ser Cys Leu Cys Leu Leu Ala Leu Ala Tyr Ala Lys Gly Val
 35 40 45
 Phe Asn Asn Phe Gly Phe Gln Leu Phe Thr Leu Trp Phe Gln Leu Arg
 50 55 60
 Leu Gly Arg Asn Trp Pro Gln Asp Lys Val Thr Pro Glu Phe Gly Thr
 65 70 75 80
 Lys Pro Gly Ala Lys Asp Ser Asp Gln Thr Ser Trp Ala Ser Gly Ser
 85 90 95
 Ala Pro Arg Gly Leu Lys Pro Thr Arg Val Arg Phe Gly Ile Cys Arg
 100 105 110
 Val

<210> 3276

<211> 197

<212> PRT

<213> Homo sapiens

<400> 3276

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Met Ala Pro Ala Ser Val Pro Ser Ser Leu Gln Gly Gly Leu Gly Ala
 1             5             10             15
Cys Leu Gly Arg Lys Glu Arg Arg Cys Arg Ser Ala Trp Gly Gly Cys
      20             25             30
Ser Arg Arg Trp Pro Gln Ala Gln Ala Pro Gln Gly Leu Phe Pro Pro
      35             40             45
Ala Arg Pro Gly Arg Ala Ala Trp Trp Arg Val Arg Glu Asp Pro Gly
      50             55             60
Gly Gly Pro Ser Cys Lys Asn Trp Trp Gly Pro Arg Ser Pro Pro Ser
      65             70             75             80
Arg Gly Gly Gly Leu Leu Pro Phe Gly Cys Cys Val Gln Ser Pro Val
      85             90             95
Ser Cys Ser Leu Arg Leu Tyr Pro Ala Ala Phe Pro Pro Ala Gly Glu
      100            105            110
Ala Arg Ala Ala Leu Cys Trp Pro Val Leu Pro Leu Pro Thr Arg Val
      115            120            125
Pro Trp Trp Ser Cys Arg Gly Ala His Val Thr Ser Leu Pro Thr Gly
      130            135            140
Val Arg Ala Gly Pro Gln Pro Glu Arg Glu Arg Pro Gln Ala Cys Ala
      145            150            155            160
Gly Gly Gly Asn Gly Gln Leu Arg Val Val Val Pro Gly Ala Leu His
      165            170            175
Ser Arg Gly Arg Gly Cys Val Arg Gly Val Arg Gly Ile Val Cys Pro
      180            185            190
Ala Ala Gly Thr Gln
      195

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<210> 3277

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3277

Met Ala Thr Val Gly Glu Arg Arg Pro Leu Pro Ser Pro Glu Val Met
 1 5 10 15
 Leu Gly Gln Ser Trp Asn Leu Trp Val Glu Ala Ser Lys Leu Pro Gly
 20 25 30
 Lys Asp Gly Thr Glu Leu Asp Glu Ser Phe Lys Glu Phe Gly Lys Asn
 35 40 45
 Arg Glu Val Met Gly Leu Cys Arg Glu Asp Met Pro Ile Phe Gly Phe
 50 55 60
 Cys Pro Ala His Asp Asp Phe Tyr Leu Val Val Cys Asn Asp Cys Asn
 65 70 75 80
 Gln Val Val Lys Pro Gln Ala Phe Gln Ser His Tyr Glu Arg Arg His
 85 90 95
 Ser Ser Ser Ser Lys Pro Pro Leu Ala Val Pro Pro Thr Ser Val Phe
 100 105 110
 Ser Phe Phe Pro Ser Leu Ser Lys Ser Lys Gly Gly Ser Ala Ser Gly
 115 120 125
 Ser Asn Arg Ser Ser Ser Gly Gly Val Leu Ser Ala Ser Ser Ser Ser
 130 135 140
 Ser Lys Leu Leu Lys His Pro Leu Thr Lys Asn Tyr Ser
 145 150 155

<210> 3278

<211> 408

<212> PRT

<213> Homo sapiens

<400> 3278

Met Asn Leu Pro Arg Ala Glu Arg Pro Arg Ser Thr Pro Gln Arg Ser
 1 5 10 15
 Leu Arg Asp Ser Asp Gly Glu Asp Gly Lys Ile Asp Val Leu Gly Glu
 20 25 30
 Glu Glu Asp Glu Asp Glu Val Glu Asp Glu Glu Glu Glu Ala Ser Gln
 35 40 45
 Lys Phe Leu Glu Gln Ser Leu Gln Pro Gly Leu Gln Val Ala Arg Trp

50	55	60
Gly Gly Val Ala Leu Pro Arg Glu His Ile Glu Gly Gly Gly Pro Ser		
65	70	75
Asp Pro Ser Glu Phe Gly Thr Glu Phe Arg Ala Pro Pro Arg Ser Ala		
	85	90
Ala Ala Ser Glu Asp Ala Arg Gln Pro Ala Lys Pro Pro Tyr Ser Tyr		95
	100	105
Ile Ala Leu Ile Thr Met Ala Ile Leu Gln Ser Pro His Lys Arg Leu		110
	115	120
Thr Leu Ser Gly Ile Cys Ala Phe Ile Ser Gly Arg Phe Pro Tyr Tyr		125
	130	135
Arg Arg Lys Phe Pro Ala Trp Gln Asn Ser Ile Arg His Asn Leu Ser		140
145	150	155
		160
Leu Asn Asp Cys Phe Val Lys Ile Pro Arg Glu Pro Gly His Pro Gly		
	165	170
Lys Gly Thr Tyr Trp Ser Leu Asp Pro Ala Ser Gln Asp Met Phe Asp		175
	180	185
Asn Gly Ser Phe Leu Arg Arg Arg Lys Arg Phe Lys Arg His Gln Leu		190
	195	200
Thr Pro Gly Ala His Leu Pro His Pro Phe Pro Leu Pro Ala Ala His		205
	210	215
Ala Ala Leu His Asn Pro Arg Pro Gly Pro Leu Leu Gly Ala Pro Ala		220
225	230	235
Leu Pro Gln Pro Val Pro Gly Ala Tyr Pro Asn Thr Ala Pro Gly Arg		240
	245	250
Arg Pro Tyr Ala Leu Leu His Pro His Pro Pro Arg Tyr Leu Leu Leu		255
	260	265
Ser Ala Pro Ala Tyr Ala Gly Ala Pro Lys Lys Ala Glu Gly Ala Asp		270
	275	280
Leu Ala Thr Pro Gly Thr Leu Pro Val Leu Gln Pro Ser Leu Gly Pro		285
	290	295
Gln Pro Trp Glu Glu Gly Lys Gly Leu Ala Ser Pro Pro Gly Gly Gly		300
305	310	315
Cys Ile Ser Phe Ser Ile Glu Ser Ile Met Gln Gly Val Arg Gly Ala		320
	325	330
		335

Gly Thr Gly Ala Ala Gln Ser Leu Ser Pro Thr Ala Trp Ser Tyr Cys
 340 345 350
 Pro Leu Leu Gln Arg Pro Ser Ser Leu Ser Asp Asn Phe Ala Ala Thr
 355 360 365
 Ala Ala Ala Ser Gly Gly Gly Leu Arg Gln Arg Leu Arg Ser His Gln
 370 375 380
 Gly Arg Gly Ala Gly Arg Ala Pro Val Gly Arg Val Gly Ala Ala Ala
 385 390 395 400
 Val Ser Gly Gly Gly Arg Gly Leu
 405

<210> 3279

<211> 324

<212> PRT

<213> Homo sapiens

<400> 3279

Met Gly Asp Leu Leu Pro Arg Ala Trp Pro Gly Ala Gly Cys Thr Glu
 1 5 10 15
 Thr Gln Thr Thr Ser Gln Gly Pro Gln Glu Leu Ala Val Pro Thr Ala
 20 25 30
 Glu Cys Tyr Ser Cys Ser Phe Tyr Phe Cys Val Cys Pro Glu Ala Leu
 35 40 45
 Pro Gln Glu Glu Gln Glu Gly Ser Gly Ser Glu Glu Arg Gly Glu Glu
 50 55 60
 Lys Gly Thr Ser Ser Pro Asp Tyr Arg His Tyr Leu Arg Met Trp Ala
 65 70 75 80
 Lys Glu Lys Glu Ala Gln Lys Glu Thr Ile Lys Asp Leu Pro Lys Met
 85 90 95
 Asn Gln Glu Gln Phe Ile Glu Leu Cys Lys Thr Leu Tyr Asn Met Phe
 100 105 110
 Ser Glu Asp Pro Met Glu Gln Asp Leu Tyr His Ala Ile Ala Thr Val
 115 120 125
 Ala Ser Leu Leu Leu Arg Ile Gly Glu Val Gly Lys Lys Phe Ser Ala
 130 135 140

Arg Thr Gly Arg Lys Pro Arg Asp Cys Ala Thr Gly Glu Asp Glu Pro
 145 150 155 160
 Pro Ala Pro Glu Leu His Gln Asp Ala Ala Arg Glu Leu Gln Pro Pro
 165 170 175
 Ala Ala Gly Asp Pro Gln Ala Lys Ala Gly Gly Asp Thr His Leu Gly
 180 185 190
 Thr Ala Pro Gln Glu Ser Gln Val Val Val Glu Gly Gly Ser Gly Glu
 195 200 205
 Gly Gln Gly Ser Pro Ser Gln Leu Leu Ser Asp Asp Glu Thr Lys Asp
 210 215 220
 Asp Met Ser Met Ser Ser Tyr Ser Val Val Ser Thr Gly Ser Leu Gln
 225 230 235 240
 Cys Glu Asp Leu Ala Asp Asp Thr Val Leu Val Gly Gly Glu Ala Cys
 245 250 255
 Ser Ser Thr Ala Arg Ile Gly Gly Thr Val Asp Thr Asp Trp Cys Ile
 260 265 270
 Ser Phe Glu Gln Ile Leu Ala Ser Ile Leu Thr Glu Ser Val Leu Val
 275 280 285
 Asn Phe Phe Glu Lys Arg Val Asp Ile Gly Leu Lys Ile Lys Asp Gln
 290 295 300
 Lys Lys Val Glu Arg Gln Phe Ser Thr Ala Ser Asp His Glu Gln Pro
 305 310 315 320
 Gly Val Ser Gly

<210> 3280

<211> 233

<212> PRT

<213> Homo sapiens

<400> 3280

Met Phe His Arg Thr Pro Pro Arg Arg Ser Phe Pro Asn Pro Ser Trp
 1 5 10 15
 Lys Gly Pro Gly Ser Lys Gly His Gln Ser Cys Leu Ser Asp Gln Leu
 20 25 30

Ala	Val	Ser	Ser	Gly	Cys	Trp	Pro	Glu	Thr	Ala	Leu	Ala	Leu	Ser	Lys
35				40				45							
Val	Thr	Val	His	Cys	Leu	Ala	Ile	Ala	Ser	Leu	Ser	Gly	Pro	Ala	Leu
50				55				60							
Gly	Leu	Val	Arg	Leu	Leu	Gln	His	Pro	Trp	Leu	Phe	Pro	Trp	Gln	Cys
65				70				75				80			
Asp	Tyr	Pro	Ala	Leu	Thr	Gln	Ser	Lys	Gly	Val	Pro	Leu	Ser	Trp	Val
85				90				95							
Lys	Phe	Thr	Arg	Arg	Leu	Leu	Lys	Cys	Leu	Leu	Arg	Gly	Asn	Leu	Cys
100				105				110							
Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Ser
115				120				125							
Leu	Ser	Leu	Ser	Leu	Ser	Gln	Cys	Ile	Ser	Leu	Leu	Ser	Phe	Thr	Phe
130				135				140							
Pro	Phe	Phe	Leu	Ser	Lys	Asn	Asn	Val	Leu	Val	Glu	Ala	Leu	Val	Thr
145				150				155				160			
Leu	Ile	Asn	Gln	Asn	Leu	Pro	Phe	Pro	Val	Ser	Leu	Phe	Leu	Arg	Pro
165				170				175							
Phe	His	Pro	His	Tyr	Leu	Leu	Leu	Pro	Arg	Asn	Met	Thr	Asp	His	Gln
180				185				190							
Asp	Ala	Ala	Arg	Arg	Glu	Asp	Leu	Ser	Gln	Lys	Pro	Thr	Ser	Lys	Met
195				200				205							
Gly	Gly	Arg	Cys	Gly	Leu	Arg	Ser	Ser	Ala	Met	His	Pro	Lys	Pro	Leu
210				215				220							
Thr	Phe	Pro	Leu	Trp	Lys	Cys	Thr	Gly							
225				230											

<210> 3281

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3281

Met Ala Ala Val Glu Lys Arg Arg Gln Ala Val Pro Pro Pro Ala Gly
1 5 10 15

Phe Thr Asp Ser Gly Arg Gln Ser Val Ser Arg Ala Ala Gly Ala Ala
 20 25 30
 Glu Ser Glu Glu Asp Phe Leu Arg Gln Val Gly Val Thr Glu Met Leu
 35 40 45
 Arg Ala Ala Leu Leu Lys Val Leu Glu Ala Arg Pro Glu Glu Pro Ile
 50 55 60
 Ala Phe Leu Ala His Tyr Phe Glu Asn Met Gly Leu Arg Ser Pro Val
 65 70 75 80
 Asn Gly Gly Ala Gly Glu Pro Pro Gly Gln Leu Leu Leu Gln Gln Gln
 85 90 95
 Arg Leu Gly Arg Ala Leu Trp His Leu Arg Leu Ala His His Ser Arg
 100 105 110
 Arg Cys Ala Val Gly Arg Leu Gly Arg Val Gly Gln Arg Trp Thr Ser
 115 120 125
 Thr Pro Ser Met Pro Arg Ala Ala Pro Tyr Pro Gln Arg Arg Arg Arg
 130 135 140
 Gly Pro Gly Leu Ala Gly Ser Cys Ser Ala Arg Cys Leu Leu Gly Trp
 145 150 155 160
 Asp Gly Ser Asp Lys Val Gly Trp Arg Val Arg Ala Ser Val Arg Arg
 165 170 175

<210> 3282

<211> 924

<212> PRT

<213> Homo sapiens

<400> 3282

Met Ile Ser Gln Thr Gln Ser Leu Gly Gly Pro Pro Leu Glu His Glu
 1 5 10 15
 Val Pro Gly His Pro Pro Gly Gly Asp Met Gly Gln Gln Met Asn Met
 20 25 30
 Met Ile Gln Arg Leu Gly Gln Asp Ser Leu Thr Pro Glu Gln Val Ala
 35 40 45
 Trp Arg Lys Leu Gln Glu Glu Tyr Tyr Glu Glu Lys Arg Arg Lys Glu

50	55	60	
Glu Gln Ile Gly Leu His Gly Ser Arg Pro Leu Gln Asp Met Met Gly			
65	70	75	80
Met Gly Gly Met Met Val Arg Gly Pro Pro Pro Tyr His Ser Lys			
	85	90	95
Pro Gly Asp Gln Trp Pro Pro Gly Met Gly Ala Gln Leu Arg Gly Pro			
	100	105	110
Met Asp Val Gln Asp Pro Met Gln Leu Arg Gly Gly Pro Pro Phe Pro			
	115	120	125
Gly Pro Arg Phe Pro Gly Asn Gln Ile Gln Arg Val Pro Gly Phe Gly			
130	135	140	
Gly Met Gln Ser Met Pro Met Glu Val Pro Met Asn Ala Met Gln Arg			
145	150	155	160
Pro Val Arg Pro Gly Met Gly Trp Thr Glu Asp Leu Pro Pro Met Gly			
	165	170	175
Gly Pro Ser Asn Phe Ala Gln Asn Thr Met Pro Tyr Pro Gly Gly Gln			
	180	185	190
Gly Glu Ala Glu Arg Phe Met Thr Pro Arg Val Arg Glu Glu Leu Leu			
	195	200	205
Arg His Gln Leu Leu Glu Lys Arg Ser Met Gly Met Gln Arg Pro Leu			
210	215	220	
Gly Met Ala Gly Ser Gly Met Gly Gln Ser Met Glu Met Glu Arg Met			
225	230	235	240
Met Gln Ala His Arg Gln Met Asp Pro Ala Met Phe Pro Gly Gln Met			
	245	250	255
Ala Gly Gly Glu Gly Leu Ala Gly Thr Pro Met Gly Met Glu Phe Gly			
	260	265	270
Gly Gly Arg Gly Leu Leu Ser Pro Pro Met Gly Gln Ser Gly Leu Arg			
	275	280	285
Glu Val Asp Pro Pro Met Gly Pro Gly Asn Leu Asn Met Asn Met Asn			
290	295	300	
Val Asn Met Asn Met Asn Met Asn Leu Asn Val Gln Met Thr Pro Gln			
305	310	315	320
Gln Gln Met Leu Met Ser Gln Lys Met Arg Gly Pro Gly Asp Leu Met			
	325	330	335
Gly Pro Gln Gly Leu Ser Pro Glu Glu Met Ala Arg Val Arg Ala Gln			

340	345	350
Asn Ser Ser Gly Val Met Gly Gly Pro Gln Lys Met Leu Met Pro Ser		
355	360	365
Gln Phe Pro Asn Gln Gly Gln Gln Gly Phe Ser Gly Gly Gln Gly Pro		
370	375	380
Tyr Gln Ala Met Ser Gln Asp Met Gly Asn Thr Gln Asp Met Phe Ser		
385	390	395
Pro Asp Gln Ser Ser Met Pro Met Ser Asn Val Gly Thr Thr Arg Leu		
405	410	415
Ser His Met Pro Leu Pro Pro Ala Ser Asn Pro Pro Gly Thr Val His		
420	425	430
Ser Ala Pro Asn Arg Gly Leu Gly Arg Arg Pro Ser Asp Leu Thr Ile		
435	440	445
Ser Ile Asn Gln Met Gly Ser Pro Gly Met Gly His Leu Lys Ser Pro		
450	455	460
Thr Leu Ser Gln Val His Ser Pro Leu Val Thr Ser Pro Ser Ala Asn		
465	470	475
Leu Lys Ser Pro Gln Thr Pro Ser Gln Met Val Pro Leu Pro Ser Ala		
485	490	495
Asn Pro Pro Gly Pro Leu Lys Ser Pro Gln Val Leu Gly Ser Ser Leu		
500	505	510
Ser Val Arg Ser Pro Thr Gly Ser Pro Ser Arg Leu Lys Ser Pro Ser		
515	520	525
Met Ala Val Pro Ser Pro Gly Trp Val Ala Ser Pro Lys Thr Ala Met		
530	535	540
Pro Ser Pro Gly Val Ser Gln Asn Lys Gln Pro Pro Leu Asn Met Asn		
545	550	555
Ser Ser Thr Thr Leu Ser Asn Met Glu Gln Gly Thr Leu Pro Pro Ser		
565	570	575
Gly Pro Arg Ser Ser Ser Ala Pro Pro Ala Asn Pro Pro Ser Gly		
580	585	590
Leu Met Asn Pro Ser Leu Pro Phe Thr Ser Ser Pro Asp Pro Thr Pro		
595	600	605
Ser Gln Asn Pro Leu Ser Leu Met Met Thr Gln Met Ser Lys Tyr Ala		
610	615	620

Met Pro Ser Ser Thr Pro Leu Tyr His Asn Ala Ile Lys Thr Ile Ala
 625 630 635 640
 Thr Ser Asp Asp Glu Leu Leu Pro Asp Arg Pro Leu Leu Pro Pro Pro
 645 650 655
 Pro Pro Pro Gln Gly Ser Gly Pro Gly Ile Ser Asn Ser Gln Pro Ser
 660 665 670
 Gln Met His Leu Asn Ser Ala Ala Ala Gln Ser Pro Met Gly Met Asn
 675 680 685
 Leu Pro Gly Gln Gln Pro Leu Ser His Glu Pro Pro Pro Ala Met Leu
 690 695 700
 Pro Ser Pro Thr Pro Leu Gly Ser Asn Ile Pro Leu His Pro Asn Ala
 705 710 715 720
 Gln Gly Thr Gly Gly Pro Pro Gln Asn Ser Met Met Met Ala Pro Gly
 725 730 735
 Gly Pro Asp Ser Leu Asn Ala Pro Cys Gly Pro Val Pro Ser Ser Ser
 740 745 750
 Gln Met Met Pro Phe Pro Pro Arg Leu Gln Gln Pro His Gly Ala Met
 755 760 765
 Ala Pro Thr Gly Gly Gly Gly Gly Gly Pro Gly Leu Gln Gln His Tyr
 770 775 780
 Pro Ser Gly Met Ala Leu Pro Pro Glu Asp Leu Pro Asn Gln Pro Pro
 785 790 795 800
 Gly Pro Met Pro Pro Gln Gln His Leu Met Gly Lys Ala Met Ala Gly
 805 810 815
 Arg Met Gly Asp Ala Tyr Pro Pro Gly Val Leu Pro Gly Val Ala Ser
 820 825 830
 Val Leu Asn Asp Pro Glu Leu Ser Glu Val Ile Arg Pro Thr Pro Thr
 835 840 845
 Gly Ile Pro Glu Phe Asp Leu Ser Arg Ile Ile Pro Ser Trp Phe Leu
 850 855 860
 Arg Thr Arg Pro Phe Ser Phe Cys Leu Tyr Leu Leu Arg Ile Leu Ser
 865 870 875 880
 Leu Leu Met Trp Leu Thr Pro Leu Pro Pro Leu Pro Ala Gly Gly Trp
 885 890 895
 Pro Gly Gly Gln Val Pro Ala Gly Ala Val Asn Arg Ala Leu Arg Phe
 900 905 910

Cys Ala Gly Leu Cys Val Cys Cys Ile Ser Val Phe
 915 920

<210> 3283

<211> 428

<212> PRT

<213> Homo sapiens

<400> 3283

Met Ser Ser Gly Leu Arg Ala Ala Asp Phe Pro Arg Trp Lys Arg His
 1 5 10 15
 Ile Ser Glu Gln Leu Arg Arg Arg Asp Arg Leu Gln Arg Gln Ala Phe
 20 25 30
 Glu Glu Ile Ile Leu Gln Tyr Asn Lys Leu Leu Glu Lys Ser Asp Leu
 35 40 45
 His Ser Val Leu Ala Gln Lys Leu Gln Ala Glu Lys His Asp Val Pro
 50 55 60
 Asn Arg His Glu Ile Arg Arg Arg Gln Ala Arg Leu Gln Lys Glu Leu
 65 70 75 80
 Ala Glu Ala Ala Lys Glu Pro Leu Pro Val Glu Gln Asp Asp Asp Ile
 85 90 95
 Glu Val Ile Val Asp Glu Thr Ser Asp His Thr Glu Glu Thr Ser Pro
 100 105 110
 Val Arg Ala Ile Ser Arg Ala Ala Thr Lys Arg Leu Ser Gln Pro Ala
 115 120 125
 Gly Gly Leu Leu Asp Ser Ile Thr Asn Ile Phe Gly Arg Arg Ser Val
 130 135 140
 Ser Ser Phe Pro Val Pro Gln Asp Asn Val Asp Thr His Pro Gly Ser
 145 150 155 160
 Gly Lys Glu Val Arg Val Pro Ala Thr Ala Leu Cys Val Phe Asp Ala
 165 170 175
 His Asp Gly Glu Val Asn Ala Val Gln Phe Ser Pro Gly Ile Thr Ser
 180 185 190
 Ile Glu Phe Asp Ser Ala Gly Ser Tyr Leu Leu Ala Ala Ser Asn Asp
 195 200 205

Phe Ala Ser Arg Ile Trp Thr Val Asp Asp Tyr Arg Leu Arg His Thr
 210 215 220
 Leu Thr Gly His Ser Gly Lys Val Leu Ser Ala Lys Phe Leu Leu Asp
 225 230 235 240
 Asn Ala Arg Ile Val Ser Gly Ser His Asp Arg Thr Leu Lys Leu Trp
 245 250 255
 Asp Leu Arg Ser Lys Val Cys Ile Lys Thr Val Phe Ala Gly Ser Ser
 260 265 270
 Cys Asn Asp Ile Val Cys Thr Glu Gln Cys Val Met Ser Gly His Phe
 275 280 285
 Asp Lys Lys Ile Arg Phe Trp Asp Ile Arg Ser Glu Ser Ile Val Arg
 290 295 300
 Glu Met Glu Leu Leu Gly Lys Ile Thr Ala Leu Asp Leu Asn Pro Glu
 305 310 315 320
 Arg Thr Glu Leu Leu Ser Cys Ser Arg Asp Asp Leu Leu Lys Val Ile
 325 330 335
 Asp Leu Arg Thr Asn Ala Ile Lys Gln Thr Phe Ser Ala Pro Gly Phe
 340 345 350
 Lys Cys Gly Ser Asp Trp Thr Arg Val Val Phe Ser Pro Asp Gly Ser
 355 360 365
 Tyr Val Ala Ala Gly Ser Ala Glu Gly Ser Leu Tyr Ile Trp Ser Val
 370 375 380
 Leu Thr Gly Lys Val Glu Lys Val Leu Ser Lys Gln His Ser Ser Ser
 385 390 395 400
 Ile Asn Ala Val Ala Trp Ser Pro Ser Gly Ser His Val Val Ser Val
 405 410 415
 Asp Lys Gly Cys Lys Ala Val Leu Trp Ala Gln Tyr
 420 425

<210> 3284

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3284

Met Arg Met Val Pro Met Glu Met Phe Asn Tyr Cys Ser Gln Leu Glu
 1 5 10 15
 Asp Glu Asn Ser Ser Ala Gly Leu Asp Ile Pro Gly Pro Pro Cys Thr
 20 25 30
 Lys Ala Ser Pro Glu Pro Ala Lys Pro Lys Pro Gly Ala Gln His Ser
 35 40 45
 Leu Pro Thr Glu Ala Glu Ala Pro Ala Gly Glu Arg Glu Ala Ser His
 50 55 60
 Gly His Gly Asp His Cys Arg Gly Arg Val Arg Arg Arg Leu His His
 65 70 75 80
 Asp Gly Gly Gly Arg Cys Leu Trp Leu His Leu Arg Leu Pro His Gly
 85 90 95
 Gln Val Pro Pro Gly Ala Gln Lys Ala Pro Ala Pro Asp Gly Gly Pro
 100 105 110
 Arg Gly Arg Ala Arg Gly Pro Glu Ala Asp Leu Phe Cys Gly Leu Ser
 115 120 125
 Ala His Pro His Pro Ala Arg
 130 135

<210> 3285

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3285

Met Glu His Phe Gly Ser Gly Leu Met Gly Glu Ser Pro Phe Ile Phe
 1 5 10 15
 Leu His Leu Gly Gln Leu His Ser Lys Glu Arg Asn Lys Gly His Val
 20 25 30
 Leu Pro Lys Ala Ser Gly Leu Thr Gly Gln Ser Gln Pro Phe Arg Glu
 35 40 45
 Gly Met Ser Pro Lys Glu Gly Ser Pro Phe Phe Pro Glu His Pro Pro
 50 55 60
 Leu Ser Ala Glu Leu Leu Leu Pro Thr His Pro Ser Thr Ile Ala Leu
 65 70 75 80

Ser Thr Val Cys Pro Cys Gln Asn Pro Ser Pro Thr Cys Leu Ala Trp
 85 90 95
 Tyr Pro Ser Leu Gly Gly Arg Gln
 100

<210> 3286

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3286

Met Leu Gly Ile Ser Ala Ile Gly Gly Leu Cys Cys Leu His Arg Leu
 1 5 10 15
 Tyr Ser Cys Ile Pro Gly Glu Gly Gly Arg Ala Ala Lys Glu Lys Ser
 20 25 30
 Gln Ser Gln Gln Pro Ala Leu Arg Pro Ser Lys Leu Cys Thr Gly Gly
 35 40 45
 Leu Gly Ser Ala Leu Trp Ala Arg Gly Ala Gly Lys Arg Ala Gly Arg
 50 55 60
 Gly Thr Ala Ala Thr Ser Ala Arg Ala Ala Gln Glu Ala Pro Pro Tyr
 65 70 75 80
 Thr Ala Leu Gln Val Pro Gln Arg Glu Gln Pro Met Leu Pro Lys His
 85 90 95
 Pro Leu His Thr His Gln Gly Ser Trp Arg Arg Glu Val Pro Gln Gly
 100 105 110
 Lys Ala Pro Ser Pro Arg Arg Ala Ser Gly Pro Gly Leu Leu Trp Leu
 115 120 125
 Pro Thr Ala Ile Ile Ser Ile Tyr Arg Ala Gln Ser
 130 135 140

<210> 3287

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3287

Met Ser Leu Leu Pro Asn Ser His Gln Ile Phe Leu Ile Glu Phe Leu
 1 5 10 15
 Val Leu Val Pro Asp Arg Thr Asn Asp Ser Pro Asn Leu Pro Val Phe
 20 25 30
 Met Arg Glu Lys Glu Lys Gly Ile Lys Gly Gly Arg Lys Lys Lys Pro
 35 40 45
 Asn Ser Val Tyr Gly Glu Lys Gly Phe Cys Phe Ser Pro Asn Leu Gly
 50 55 60
 Gly Gly Arg Gly Gly Phe Ser Phe Tyr Phe Cys Phe Cys Phe Tyr Leu
 65 70 75 80
 Gly Phe Cys Phe Ser His Val Tyr Ser Ala Arg Ser Val Glu Gly Gly
 85 90 95
 Leu Gly Glu Gly Glu Leu Glu Lys Glu Leu Met Gly Ser Tyr Pro Gly
 100 105 110
 Leu

<210> 3288

<211> 209

<212> PRT

<213> Homo sapiens

<400> 3288

Met Lys Gly Gly Ala Gly Gly Ala Arg Pro Pro Pro Gly Arg Pro Val
 1 5 10 15
 Arg Ser Gly Ala Asn Ala Ile Pro Gly Pro Thr Ala Arg Gly Arg Cys
 20 25 30
 Gly Pro Pro Asn Pro Pro Pro Arg Pro Gly Trp Gly Gly Gly Ala Gly
 35 40 45
 Gly Asp Gln Arg Leu Val Ser Leu Arg Ser Asp Leu Arg Gln Arg Gly
 50 55 60
 Arg Asp Ile Met Thr Val Gly Ala Arg Leu Arg Ser Lys Ala Glu Ser
 65 70 75 80

Ser	Leu	Leu	Arg	Arg	Gly	Pro	Arg	Gly	Arg	Gly	Arg	Thr	Glu	Gly	Asp				
				85							90					95			
Glu	Glu	Ala	Ala	Ala	Ile	Leu	Glu	His	Leu	Glu	Tyr	Ala	Asp	Glu	Ala				
				100							105						110		
Glu	Ala	Ala	Ala	Glu	Ser	Gly	Thr	Ser	Ala	Ala	Asp	Glu	Arg	Gly	Pro				
				115							120						125		
Gly	Thr	Arg	Gly	Ala	Arg	Arg	Val	His	Phe	Ala	Leu	Leu	Pro	Glu	Arg				
				130							135						140		
Tyr	Glu	Pro	Leu	Glu	Glu	Pro	Ala	Pro	Ser	Glu	Gln	Pro	Arg	Lys	Arg				
				145						150						155		160	
Tyr	Arg	Arg	Lys	Leu	Lys	Lys	Tyr	Gly	Lys	Asn	Val	Gly	Lys	Val	Ile				
				165							170						175		
Ile	Lys	Gly	Cys	Arg	Tyr	Val	Val	Ile	Gly	Leu	Gln	Gly	Phe	Ala	Ala				
				180							185						190		
Ala	Tyr	Ser	Ala	Pro	Phe	Ala	Val	Ala	Thr	Ser	Val	Val	Ser	Phe	Val				
				195							200						205		
Arg																			

<210> 3289

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3289

Met	Lys	Ala	Trp	Ser	Asn	Ala	Met	Trp	Ser	Ser	Gly	Lys	Pro	Gln	Asn
1					5					10					15
Gly	Val	Ser	Ser	Trp	Thr	Ser	Cys	Ile	Arg	Val	His	Thr	Pro	Gln	Gly
				20					25					30	
Leu	Asn	Pro	Cys	Pro	Leu	Ser	Lys	Glu	Leu	Gly	Leu	Asn	Ala	Val	Arg
				35					40					45	
Asp	Cys	Leu	Phe	Val	Val	Ile	Phe	Ile	Glu	Arg	Ser	Ser	Phe	Pro	Leu
				50				55				60			
Pro	Pro	Trp	Leu	Ser	Gln	Leu	Val	Val	Ile	Ala	Asp	Ser	Phe	Pro	Glu
				65			70				75				80

Arg Thr Phe Asn Arg Phe Lys Lys Asn Val Leu Asp Trp Val Pro Lys
 85 90 95
 Lys Gln Ser Leu Lys Gln Gly Phe Val Cys Lys
 100 105

<210> 3290

<211> 357

<212> PRT

<213> Homo sapiens

<400> 3290

Met Leu Gln Gln Ile Leu His Asp Met Tyr Ile Asp Pro Glu Leu Leu
 1 5 10 15
 Ala Glu Leu Ser Asp Val Gln Lys His Ile Leu Phe Tyr Lys Met Arg
 20 25 30
 Glu Glu Gln Leu Arg Arg Trp Lys Glu Arg Glu Thr Trp Glu Ala Leu
 35 40 45
 Ala Gln Asp Glu Gly Leu Arg Pro Pro Lys Thr Lys Arg Ala Ala Ser
 50 55 60
 Asp Lys His Ile Gln Trp Leu Leu Gly Ala Asp Gly Glu Val Trp Val
 65 70 75 80
 Trp Ile Met Gly Glu Gly Pro Gly Asp Lys Pro Tyr Glu Glu Ile Ser
 85 90 95
 Glu Glu Leu Ile Ala Glu Arg Ala Arg Leu Gln Ala Gln Arg Glu Ala
 100 105 110
 Glu Glu Leu Trp Arg Gln Lys Glu Ala Glu Ile Thr Lys Lys Phe Arg
 115 120 125
 Asp Ala Leu Ala Asn Glu Lys Ala Arg Ile Leu Ala Glu Lys Trp Lys
 130 135 140
 Val Glu Met Glu Gly Arg Lys Ala Ala Lys Val Leu Glu Glu Arg Ile
 145 150 155 160
 His Glu Glu Phe Lys Arg Lys Glu Glu Glu Glu Arg Lys Arg Gly Glu
 165 170 175
 Glu Arg Ile Arg Leu Gln Glu Glu Gln Arg Ala Lys Glu Leu Tyr Trp
 180 185 190

Thr Leu Lys Gln Ala Gln Leu His Cys Gln Ala Ser Glu Lys Glu Glu
 195 200 205
 Arg Glu Trp Glu Glu Gln Leu Arg Arg Ser Lys Ala Ala Asp Glu Glu
 210 215 220
 Arg Ser Arg Arg Ala Gln Arg Ala Arg Asp Glu Tyr Arg His His Ser
 225 230 235 240
 Leu Arg Ala Ile Gln Lys Gly Thr Val Ala Gly Leu Ser Ser Met Phe
 245 250 255
 Arg Glu Leu Gly Gln Ser His Glu Gln Glu Ala Arg Leu Tyr His His
 260 265 270
 Leu Pro Asp Pro Gly Leu Pro Gln Pro Leu Ala Leu Pro Val Arg Thr
 275 280 285
 Trp Glu Arg Pro Leu Arg Pro Val Ser Arg Asp Val Ile Val Arg Trp
 290 295 300
 Phe Lys Glu Glu Gln Leu Pro Arg Arg Ala Gly Phe Glu Arg Asn Thr
 305 310 315 320
 Lys Phe Ile Ala Pro Trp Phe His Gly Gly Asn Tyr His Cys Phe Arg
 325 330 335
 Arg Arg Val Thr Ser Gly Thr Leu Arg Thr Glu Gly Gln Pro Thr Arg
 340 345 350
 Leu Pro Ser Val Val
 355

<210> 3291

<211> 158

<212> PRT

<213> Homo sapiens

<400> 3291

Met Gly Glu Ala Trp Phe Pro Glu Val Ala Pro Ser Leu Thr Ser Ser
 1 5 10 15
 Leu Gly Trp Glu Trp Gly Phe Leu Trp Leu Cys Val Ala Pro Arg Gly
 20 25 30
 Ala Val Ala Pro Ser Ser Phe Ser Leu Phe Ser Val Gly Arg Val Val
 35 40 45

Phe	Leu	Met	Ser	Pro	Asn	Ala	Ser	Thr	Trp	Ile	Phe	Gln	Leu	Lys	Met
50							55				60				
Leu	Tyr	Ser	Leu	Ala	Ser	Phe	Val	Pro	Leu	Cys	Pro	Phe	Gly	Ala	Ser
65						70				75					80
Leu	Leu	Glu	Phe	Ala	Gly	Gly	Pro	Leu	Leu	Thr	Leu	Phe	Ala	Trp	Val
				85					90					95	
Ser	Pro	Ala	Glu	Ala	Ala	Lys	Gln	Gln	Arg	Leu	Leu	Pro	Val	Leu	Ser
		100						105					110		
Ser	Arg	Ser	Phe	Asp	Pro	Val	Gly	His	Leu	Ser	Asp	Ala	Ser	Gln	Ser
	115						120					125			
Ser	Pro	Val	Ser	Gly	Val	Cys	Arg	Ser	Lys	Leu	Glu	Gly	Ile	Ser	Gln
	130					135					140				
Ser	Val	Tyr	Met	Gly	Ile	Arg	Asp	Pro	Leu	Glu	Glu	Ala	Asp		
145					150					155					

<210> 3292

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3292

Met	Glu	Met	Ile	Ala	Phe	Ala	Arg	Ile	Phe	Cys	Lys	Gly	Gln	Val	Ser
1				5					10					15	
Thr	Ala	Thr	Phe	Leu	Glu	Ser	Cys	Gly	Val	Ala	Asp	Leu	Ile	Thr	Thr
			20					25					30		
Cys	Tyr	Gly	Gly	Arg	Asn	Arg	Arg	Val	Ala	Glu	Ala	Phe	Ala	Arg	Thr
		35					40					45			
Gly	Lys	Thr	Ile	Glu	Glu	Leu	Glu	Lys	Glu	Met	Leu	Asn	Gly	Gln	Lys
	50					55					60				
Leu	Gln	Gly	Pro	Gln	Thr	Ser	Ala	Glu	Val	Tyr	Arg	Ile	Leu	Lys	Gln
65					70					75					80
Lys	Gly	Leu	Leu	Asp	Lys	Phe	Pro	Leu	Phe	Thr	Ala	Val	Tyr	Gln	Ile
			85						90					95	
Cys	Tyr	Glu	Ser	Arg	Pro	Val	Gln	Glu	Met	Leu	Ser	Cys	Leu	Gln	Ser
		100						105						110	

His Pro Glu His Thr

115

<210> 3293

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3293

Met Trp Ser Lys Gly Trp Ile Val Ile Ser Lys Glu Ile His Cys Leu
 1 5 10 15
 Ile His Phe Lys Lys Gly Leu Thr Ser Gln Leu His Gly Met Arg Ser
 20 25 30
 Ala Ala Ser Asn Cys Gln Leu Leu Gln Ser Leu Leu Gln Leu Gln Lys
 35 40 45
 Asp Thr Val Leu Glu Val Ile Pro Phe Pro Cys Leu Val Thr Glu Val
 50 55 60
 Gln Leu Asn Val Ala Ala Lys Val Thr Leu Met Pro Met Gly Ser Lys
 65 70 75 80
 Lys Ser Lys Ser Leu Asn Arg Ile Leu Arg Asn Pro Lys Ser Val Phe
 85 90 95
 Phe Gln His Met Thr Phe Trp Ser Ser Leu Leu Phe Ser Asn Arg
 100 105 110

<210> 3294

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3294

Met Gly Cys Ser Pro Leu Ala Cys Ser Ser Thr Pro Leu His Pro Ser
 1 5 10 15
 Leu Ser Phe Gly Arg Ser Ala Ile Gln Ser Cys His Leu Phe Arg Met
 20 25 30

Thr Phe Pro Phe Arg Ala Arg Cys Val Arg Phe Pro Gly Met Phe Pro
 35 40 45
 Ser Ser Pro Ser Ser Ser Trp Pro Gly Pro Ala Cys His Leu His Ala
 50 55 60
 Gly Val Cys Asp Cys Leu Val Leu Thr Arg Gly Val Gly Trp Trp Ser
 65 70 75 80
 Thr Ser Leu Gly Arg Gly Leu Ile Arg Pro Gly Val Ser Arg Phe His
 85 90 95
 Ala Leu Ser Ile Pro Asp His
 100

<210> 3295

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3295

Met Val Tyr Ser Arg His Pro Lys Pro Val Ser Thr Ser His Lys Arg
 1 5 10 15
 His Val Ser His Arg Ala Gly Asn Pro Gly Pro Ser Pro Gly Thr Ser
 20 25 30
 Gly Pro Ile Ser Ala Pro Asp Leu Pro Cys Ser Leu Ala Trp Asp Leu
 35 40 45
 Ser Tyr Ser Trp Ala Val Asp His Val Pro Leu Pro Ala Leu Thr Cys
 50 55 60
 Pro Leu Thr Gly Asp Ser Glu Gly Pro His Leu Pro Arg Cys His Ser
 65 70 75 80
 Thr Trp His Leu Met Arg Lys Ala Thr Gln Arg Lys Gly Leu Tyr Ser
 85 90 95
 Ser Asp Phe Arg Gly Lys Thr Thr Gln Met Lys Gly Thr Thr Ile
 100 105 110

<210> 3296

<211> 144

<212> PRT

<213> Homo sapiens

<400> 3296

```

Met Gly Val Ala Arg Met Gly Ser His Gly Ser Val Arg Ala Glu Ala
  1             5             10             15
Arg Phe Glu Leu Arg Pro Thr Pro Arg His Ser Ala Cys Tyr Pro Gly
      20             25             30
Cys Pro Pro Pro Gly Cys His His His Ala Arg Gly Ala Ala Ser Pro
      35             40             45
Gly Arg Ser Asp His Tyr Phe His Ala Ser Cys Gly Asp Glu Gly Thr
      50             55             60
Glu Ser His Arg Leu Arg Phe Gln Arg Arg Asn Leu Val Ser Glu Asn
      65             70             75             80
Pro Ala Leu Arg Arg Ala Gly Ala Glu Arg Ser Arg His Trp Pro Glu
      85             90             95
Gly Gly Leu Ser Thr Tyr Lys Pro Thr Glu Ala Ser Val Ser Val Val
      100            105            110
Leu Phe Val Val Ser Gln Ala Leu Gly Ser Trp Leu Gly Val Arg Val
      115            120            125
Arg Ser Ser Thr Cys Lys Gln Gly Cys Leu Pro Leu Ser Thr Leu Ala
      130            135            140

```

<210> 3297

<211> 319

<212> PRT

<213> Homo sapiens

<400> 3297

```

Met Thr Leu Ala Ser His Pro Arg Pro Glu Gly Leu His Ser Arg Gln
  1             5             10             15
Trp Ser Gly Ser Gln Asp Ser Gln Met Gly Phe Pro Arg Ala Asp Pro
      20             25             30
Ala Ser Asp Arg Ala Ser Leu Phe Val Ala Arg Thr Arg Arg Ser Asn
      35             40             45

```

Ser Ser Glu Ala Leu Leu Val Asp Arg Ala Ala Gly Gly Gly Ala Gly
 50 55 60
 Ser Pro Pro Ala Pro Leu Ala Pro Ser Ala Ser Gly Pro Pro Val Cys
 65 70 75 80
 Lys Ser Ser Glu Val Leu Tyr Glu Arg Pro Gln Pro Thr Pro Ala Phe
 85 90 95
 Ser Ser Arg Thr Ala Gly Pro Pro Asp Pro Pro Arg Ala Ala Arg Pro
 100 105 110
 Ser Ser Ala Ala Pro Ala Ser Arg Gly Ala Pro Arg Leu Pro Pro Val
 115 120 125
 Cys Gly Asp Phe Leu Leu Asp Tyr Ser Leu Asp Arg Gly Leu Pro Arg
 130 135 140
 Ser Gly Gly Gly Thr Gly Trp Gly Glu Leu Pro Pro Ala Ala Glu Val
 145 150 155 160
 Pro Gly Pro Leu Ser Arg Arg Asp Gly Leu Leu Thr Met Leu Pro Gly
 165 170 175
 Pro Pro Pro Val Tyr Ala Ala Asp Ser Asn Ser Pro Leu Leu Arg Thr
 180 185 190
 Lys Asp Pro His Thr Arg Ala Thr Arg Thr Lys Pro Cys Gly Leu Pro
 195 200 205
 Pro Glu Ala Ala Glu Gly Pro Glu Val His Pro Asn Pro Leu Leu Trp
 210 215 220
 Met Pro Pro Pro Thr Arg Ile Pro Ser Ala Gly Glu Arg Ser Gly His
 225 230 235 240
 Lys Asn Leu Ala Leu Glu Gly Leu Arg Asp Trp Tyr Ile Arg Asn Ser
 245 250 255
 Gly Leu Ala Ala Gly Pro Gln Arg Arg Pro Val Leu Pro Ser Val Gly
 260 265 270
 Pro Pro His Pro Pro Phe Leu His Ala Arg Cys Tyr Glu Val Gly Gln
 275 280 285
 Ala Leu Tyr Gly Ala Pro Ser Gln Ala Pro Leu Pro His Ser Arg Ser
 290 295 300
 Phe Thr Ala Pro Pro Val Ser Gly Arg Tyr Gly Gly Cys Phe Tyr
 305 310 315

<210> 3298

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3298

```

Met Ile Val Glu His Leu Ser Glu Pro Lys Ser Leu Gly Glu Cys Gly
  1             5             10             15
Asp Phe Leu Glu Gly Gly Cys Arg Leu Pro Glu Ser Pro Pro Asn Gly
             20             25             30
Arg Ala Glu Lys Gly Glu Gly Gly Gly Cys Ser Gln Glu Gly Ala
             35             40             45
Arg Glu Glu Gln Gly Leu Gly Ala Ser Arg Asn Met Pro Ala Val Gly
             50             55             60
Gly Arg Gly Arg Gly Ala Thr Val Asn Gly Phe Pro Ser Glu Val Val
             65             70             75             80
Gly Ala Asp Gly Ser Phe Cys Leu Leu Ala Leu Lys Arg Val Phe Cys
             85             90             95
Gln Gly His Ser Leu Phe Leu Leu Arg Lys His Pro Pro Asn Ala Asn
             100            105            110

Asn Ile Pro Thr Ser Cys
             115

```

<210> 3299

<211> 159

<212> PRT

<213> Homo sapiens

<400> 3299

```

Met Arg Arg Gly Ala Pro Arg Pro Gly Pro Pro Thr Pro Ala Leu Pro
  1             5             10             15
Gly Pro Pro Leu Trp Ala Ser Val Ser Ile Pro Ala Pro Gly Lys Gly
             20             25             30
Gly Arg Leu Glu Ser Arg Ser Arg Ala Arg Ser Pro Gly Val Pro Ala

```

35	40	45
Ala Ala Glu Cys Lys Val	Ala Ala Phe Ser Leu Leu Arg Gly Ile Ser	
50	55	60
Glu Ile Ser Gln Glu Gly Thr Phe Gly Arg Phe Trp Gly Gln Leu Gly		
65	70	75
Ser Asn Arg Gly Ser Arg Thr Pro Lys Gly Glu Ser Pro Ala Ser Glu		
85	90	95
Asp Gly Glu Glu Gly Gly Ala Leu Ala Lys Gly Ala Leu Pro Tyr Gln		
100	105	110
Pro Gly Leu Leu Lys Arg Gly Asp Phe Glu Trp Val Thr Ser Pro Ala		
115	120	125
Trp Ala Arg Ser Val Glu Gly Gly Pro Ala Gln Arg Val Asn Arg Leu		
130	135	140
Glu Val Cys Asp Gln Gly Gln Pro Ala Val Arg Ala Cys Gly Arg		
145	150	155

<210> 3300

<211> 461

<212> PRT

<213> Homo sapiens

<400> 3300

Met Gly Asp Arg Ser Gly Gln Gln Glu Arg Ser Val Pro His Ser Pro		
1	5	10
Gly Ala Pro Val Gly Thr Ser Ala Ala Ala Val Asn Glu Leu Leu His		
20	25	30
Asn Gly Phe His Pro Pro Pro Val Gln Pro Pro His Val Cys Ser Arg		
35	40	45
Gly Pro Val Gly Gly Ser Asp Ala Ala Pro Gln Arg Leu Pro Leu Leu		
50	55	60
Pro Glu Leu Gln Pro Gln Pro Leu Leu Pro Gln His Asp Ser Pro Ala		
65	70	75
Lys Lys Cys Arg Leu Arg Arg Arg Met Asp Ser Gly Arg Lys Asn Arg		
85	90	95

Pro Pro Phe Pro Trp Phe Gly Met Asp Ile Gly Gly Thr Leu Val Lys
 100 105 110
 Leu Val Tyr Phe Glu Pro Lys Asp Ile Thr Ala Glu Glu Glu Gln Glu
 115 120 125
 Glu Val Glu Asn Leu Lys Ser Ile Arg Lys Tyr Leu Thr Ser Asn Thr
 130 135 140
 Ala Tyr Gly Lys Thr Gly Ile Arg Asp Val His Leu Glu Leu Lys Asn
 145 150 155 160
 Leu Thr Met Cys Gly Arg Lys Gly Asn Leu His Phe Ile Arg Phe Pro
 165 170 175
 Ser Cys Ala Met His Arg Phe Ile Gln Met Gly Ser Glu Lys Asn Phe
 180 185 190
 Ser Ser Leu His Thr Thr Leu Cys Ala Thr Gly Gly Gly Ala Phe Lys
 195 200 205
 Phe Glu Glu Asp Phe Arg Met Ile Ala Asp Leu Gln Leu His Lys Leu
 210 215 220
 Asp Glu Leu Asp Cys Leu Ile Gln Gly Leu Leu Tyr Val Asp Ser Val
 225 230 235 240
 Gly Phe Asn Gly Lys Pro Glu Cys Tyr Tyr Phe Glu Asn Pro Thr Asn
 245 250 255
 Pro Glu Leu Cys Gln Lys Lys Pro Tyr Cys Leu Asp Asn Pro Tyr Pro
 260 265 270
 Met Leu Leu Val Asn Met Gly Ser Gly Val Ser Ile Leu Ala Val Tyr
 275 280 285
 Ser Lys Asp Asn Tyr Lys Arg Val Thr Gly Thr Ser Leu Gly Gly Gly
 290 295 300
 Thr Phe Leu Gly Leu Cys Cys Leu Leu Thr Gly Cys Glu Thr Phe Glu
 305 310 315 320
 Glu Ala Leu Glu Met Ala Ala Lys Gly Asp Ser Thr Asn Val Asp Lys
 325 330 335
 Leu Val Lys Asp Ile Tyr Gly Gly Asp Tyr Glu Arg Phe Gly Leu Gln
 340 345 350
 Gly Ser Ala Val Ala Ser Ser Phe Gly Asn Met Met Ser Lys Glu Lys
 355 360 365
 Arg Asp Ser Ile Ser Lys Glu Asp Leu Ala Arg Ala Thr Leu Val Thr
 370 375 380

Ile Thr Asn Asn Ile Gly Ser Ile Ala Arg Met Cys Ala Leu Asn Glu
 385 390 395 400
 Asn Ile Asp Arg Val Val Phe Val Gly Asn Phe Leu Arg Ile Asn Met
 405 410 415
 Val Ser Met Lys Leu Leu Ala Tyr Ala Met Asp Phe Trp Ser Lys Gly
 420 425 430
 Gln Leu Lys Ala Leu Phe Leu Glu His Glu Gly Tyr Phe Gly Ala Val
 435 440 445
 Gly Ala Leu Leu Glu Leu Phe Lys Met Thr Asp Asp Lys
 450 455 460

<210> 3301

<211> 154

<212> PRT

<213> Homo sapiens

<400> 3301

Met Thr Val Leu His Tyr Leu Asp Ser Ala Gln Glu Ala Thr Met Met
 1 5 10 15
 Tyr Gln Tyr Ser Gln His Leu Asp Asp Val Thr Leu Leu Cys Leu Gly
 20 25 30
 Pro Val Tyr Ile Val Tyr Glu Thr Tyr Val Trp Val His His Leu Val
 35 40 45
 Asp Val Thr Leu Leu His Gly Leu Cys Pro Trp Arg Cys Glu Ile Phe
 50 55 60
 Phe His Ser Ser Pro Ala Ile Ser Leu Leu Cys Leu Phe Cys Leu Gly
 65 70 75 80
 Leu Ala Lys Lys Arg Ile Ile Val Tyr His Trp Thr Gln Asn Leu Gly
 85 90 95
 Glu Val Thr Pro Ile Leu Pro Gly Ala His Ile Phe Gly Tyr Cys Asp
 100 105 110
 Ile Gly Asp Gly Trp Glu Ala His Glu Trp Ala Leu Leu Thr Glu Gly
 115 120 125
 Leu Val Thr Ser Gln His Ser Leu Pro Arg Lys Cys Asp Tyr Cys Leu
 130 135 140

Pro Phe Ala Pro Cys Leu Gln Gly Arg Leu

145

150

<210> 3302

<211> 183

<212> PRT

<213> Homo sapiens

<400> 3302

Met Ala His Cys Ser Leu Asn Leu Leu Gly Ser Asn Lys Pro Pro Thr

1

5

10

15

Leu Ala Ser Gln Val Ala Gly Thr Ile Gly Thr His His His Val Arg

20

25

30

Pro Ile Phe Val Phe Phe Lys Glu Thr Gly Cys His Cys Val Ala Gln

35

40

45

Ala Gly Leu Gln Leu Leu Gly Ser Ser Asn Leu Ser Ala Leu Val Ser

50

55

60

Gln Thr Ala Gly Ser Ile Val Val Asn Gln Arg Ala Gln Pro Pro Ser

65

70

75

80

Leu Ser Val Ser Val Phe Leu Cys Ser Ser Leu Ser Leu Leu Phe Leu

85

90

95

Ser Leu Pro Ile Ser Leu Ser Phe Leu Ser Val Ser Ala Ser Val Cys

100

105

110

Val Cys Phe Leu Ser Leu Phe Ser Val Cys Leu Cys Leu Pro Leu Pro

115

120

125

Val Ser Pro Leu Val Cys Ala Ser Leu Cys Leu Ser Leu Ala Leu Leu

130

135

140

Cys Leu Ser Leu Phe Leu Gln Arg Ala Phe Pro His Val Tyr Pro Leu

145

150

155

160

Val Pro Pro Tyr Ser Val Leu Pro Tyr Pro Gly Ser Ser Tyr Leu Ser

165

170

175

Ala Phe Leu Glu Pro Gly Asp

180

<210> 3303

<211> 650

<212> PRT

<213> Homo sapiens

<400> 3303

```

Met Ala Arg Ser Pro Thr Thr His Pro Pro Ala Asn Thr Tyr Leu Pro
  1             5             10             15
Gln Tyr Gly Gly Tyr Gly Ala Gly Gln Ser Val Phe Ala Pro Thr Lys
      20             25             30

Pro Phe Thr Gly Gln Asp Cys Ala Asn Ser Lys Asp Cys Ser Phe Ala
      35             40             45
Tyr Gly Ser Gly Asn Ser Leu Pro Ala Ser Pro Ser Ser Ala His Ser
      50             55             60
Ala Gly Tyr Ala Pro Pro Pro Thr Gly Gly Pro Cys Leu Pro Pro Ser
      65             70             75             80
Lys Ala Ser Phe Phe Ser Ser Ser Glu Gly Ala Pro Phe Ser Gly Ser
      85             90             95
Ala Pro Thr Pro Leu Arg Cys Asp Ser Arg Ala Ser Thr Val Ser Pro
      100            105            110
Gly Gly Tyr Met Val Pro Lys Gly Thr Thr Ala Ser Ala Thr Ser Ala
      115            120            125
Ala Ser Ala Ala Ser Ser Ser Ser Ser Ser Phe Gln Pro Ser Pro Glu
      130            135            140
Asn Cys Arg Gln Phe Ala Gly Ala Ser Gln Trp Pro Phe Arg Gln Gly
      145            150            155            160
Tyr Gly Gly Leu Asp Trp Ala Ser Glu Ala Phe Ser Gln Leu Tyr Asn
      165            170            175
Pro Ser Phe Asp Cys His Val Ser Glu Pro Asn Val Ile Leu Asp Ile
      180            185            190
Ser Asn Tyr Thr Pro Gln Lys Val Lys Gln Gln Thr Ala Val Ser Glu
      195            200            205
Thr Phe Ser Glu Ser Ser Ser Asp Ser Thr Gln Phe Asn Gln Pro Val
      210            215            220
Gly Gly Gly Gly Phe Arg Arg Ala Asn Ser Glu Ala Ser Ser Ser Glu

```

225	230	235	240
Gly Gln Ser Ser Leu Ser Ser Leu Glu Lys Leu Met Met Asp Trp Asn			
245	250	255	
Glu Ala Ser Ser Ala Pro Gly Tyr Asn Trp Asn Gln Ser Val Leu Phe			
260	265	270	
Gln Ser Ser Ser Lys Pro Gly Arg Gly Arg Arg Lys Lys Val Asp Leu			
275	280	285	
Phe Glu Ala Ser His Leu Gly Phe Pro Thr Ser Ala Ser Ala Ala Ala			
290	295	300	
Ser Gly Tyr Pro Ser Lys Arg Ser Thr Gly Pro Arg Gln Pro Arg Gly			
305	310	315	320
Gly Arg Gly Gly Gly Ala Cys Ser Ala Lys Lys Glu Arg Gly Gly Ala			
325	330	335	
Ala Ala Lys Ala Lys Phe Ile Pro Lys Pro Gln Pro Val Asn Pro Leu			
340	345	350	
Phe Gln Asp Ser Pro Asp Leu Gly Leu Asp Tyr Tyr Ser Gly Asp Ser			
355	360	365	
Ser Met Ser Pro Leu Pro Ser Gln Ser Arg Ala Phe Gly Val Gly Glu			
370	375	380	
Arg Asp Pro Cys Asp Phe Ile Gly Pro Tyr Ser Met Asn Pro Ser Thr			
385	390	395	400
Pro Ser Asp Gly Thr Phe Gly Gln Gly Phe His Cys Asp Ser Pro Ser			
405	410	415	
Leu Gly Ala Pro Glu Leu Asp Gly Lys His Phe Pro Pro Leu Ala His			
420	425	430	
Pro Pro Thr Val Phe Asp Ala Gly Leu Gln Lys Ala Tyr Ser Pro Thr			
435	440	445	
Cys Ser Pro Thr Leu Gly Phe Lys Glu Glu Leu Arg Pro Pro Pro Thr			
450	455	460	
Lys Leu Ala Ala Cys Glu Pro Leu Lys His Gly Leu Gln Gly Ala Ser			
465	470	475	480
Leu Gly His Ala Ala Ala Ala Gln Ala His Leu Ser Cys Arg Asp Leu			
485	490	495	
Pro Leu Gly Gln Pro His Tyr Asp Ser Pro Ser Cys Lys Gly Thr Ala			
500	505	510	
Tyr Trp Tyr Pro Pro Gly Ser Ala Ala Arg Ser Pro Pro Tyr Glu Gly			

515 520 525
 Lys Val Gly Thr Gly Leu Leu Ala Asp Phe Leu Gly Arg Thr Glu Ala
 530 535 540
 Ala Cys Leu Ser Ala Pro His Leu Ala Ser Pro Pro Ala Thr Pro Lys
 545 550 555 560
 Ala Asp Lys Glu Pro Leu Glu Met Ala Arg Pro Pro Gly Pro Pro Arg
 565 570 575
 Gly Pro Ala Ala Ala Ala Ala Gly Tyr Gly Cys Pro Leu Leu Ser Asp
 580 585 590
 Leu Thr Leu Ser Pro Val Pro Arg Asp Ser Leu Leu Pro Leu Gln Asp
 595 600 605
 Thr Ala Tyr Arg Tyr Pro Gly Phe Met Pro Gln Ala His Pro Gly Leu
 610 615 620
 Gly Gly Gly Pro Lys Ser Gly Phe Leu Gly Pro Met Ala Glu Pro His
 625 630 635 640
 Pro Glu Asp Thr Phe Thr Val Thr Ser Leu
 645 650

<210> 3304

<211> 893

<212> PRT

<213> Homo sapiens

<400> 3304

Met Gly Arg Met Gly Lys Gly Cys Pro Ala Ser Gly Pro Arg Ser Trp
 1 5 10 15
 Leu Leu Ser Asp Glu Leu Val Gln Gly Ser Arg Ala Gly Val Ser Ala
 20 25 30
 Ser Phe Pro Val Gly Phe Arg Glu Gly Gly Gly Gly Asp Phe Arg
 35 40 45
 Arg Gly Asp Val Gly Leu Gln Asp Gly Gly Val Arg Val Arg Val Ile
 50 55 60
 Ile Phe Ala Phe Ser Leu His Ser Leu Leu Ser Arg Phe Leu Pro Gly
 65 70 75 80
 Gly Asp Ala Ser Leu Met Glu Leu Glu Lys Arg Lys Glu Asn Arg Phe

	85		90		95										
Val	Glu	Arg	Gln	Ser	Ile	Val	Pro	Leu	Arg	Leu	Ile	Tyr	Arg	Ser	Gly
	100						105					110			
Gly	Glu	Asp	Glu	Ser	Arg	His	Asp	Ala	Leu	Asp	Thr	Arg	Val	Arg	Gly
	115						120					125			
Asp	Leu	Gly	Gly	Arg	Gln	Leu	Thr	His	Val	Asp	Gln	Ala	Ser	Phe	Gln
	130						135					140			
Val	Asp	Ala	Phe	Gly	Thr	Ser	Phe	Ile	Leu	Asp	Val	Val	Leu	Asn	His
145						150				155				160	
Asp	Leu	Leu	Ser	Ser	Glu	Tyr	Ile	Glu	Arg	His	Ile	Glu	His	Gly	Gly
			165				170					175			
Lys	Thr	Val	Glu	Val	Lys	Gly	Gly	Glu	His	Cys	Tyr	Tyr	Gln	Gly	His
	180						185					190			
Ile	Arg	Gly	Asn	Pro	Asp	Ser	Phe	Val	Ala	Leu	Ser	Thr	Cys	His	Gly
	195						200					205			
Leu	His	Gly	Met	Phe	Tyr	Asp	Gly	Asn	His	Thr	Tyr	Leu	Ile	Glu	Pro
	210						215					220			
Glu	Glu	Asn	Asp	Thr	Thr	Gln	Glu	Asp	Phe	His	Phe	His	Ser	Val	Tyr
225						230				235				240	
Lys	Ser	Arg	Leu	Phe	Glu	Phe	Ser	Leu	Asp	Asp	Leu	Pro	Ser	Glu	Phe
			245						250				255		
Gln	Gln	Val	Asn	Ile	Thr	Pro	Ser	Lys	Phe	Ile	Leu	Lys	Pro	Arg	Pro
	260							265					270		
Lys	Arg	Ser	Lys	Arg	Gln	Leu	Arg	Arg	Tyr	Pro	Arg	Asn	Val	Glu	Glu
	275						280					285			
Glu	Thr	Lys	Tyr	Ile	Glu	Leu	Met	Ile	Val	Asn	Asp	His	Leu	Met	Phe
	290						295					300			
Lys	Lys	His	Arg	Leu	Ser	Val	Val	His	Thr	Asn	Thr	Tyr	Ala	Lys	Ser
305					310					315				320	
Val	Val	Asn	Met	Ala	Asp	Leu	Ile	Tyr	Lys	Asp	Gln	Leu	Lys	Thr	Arg
			325						330				335		
Ile	Val	Leu	Val	Ala	Met	Glu	Thr	Trp	Ala	Thr	Asp	Asn	Lys	Phe	Ala
	340							345					350		
Ile	Ser	Glu	Asn	Pro	Leu	Ile	Thr	Leu	Arg	Glu	Phe	Met	Lys	Tyr	Arg
	355						360					365			
Arg	Asp	Phe	Ile	Lys	Glu	Lys	Ser	Asp	Ala	Val	His	Leu	Phe	Ser	Gly

370	375	380	
Ser Gln Phe Glu Ser Ser Arg Ser Gly Ala Ala Tyr Ile Gly Gly Ile			
385	390	395	400
Cys Ser Leu Leu Lys Gly Gly Gly Val Asn Glu Phe Gly Lys Thr Asp			
	405	410	415
Leu Met Ala Val Thr Leu Ala Gln Ser Leu Ala His Asn Ile Gly Ile			
	420	425	430
Ile Ser Asp Lys Arg Lys Leu Ala Ser Gly Glu Cys Lys Cys Glu Asp			
	435	440	445
Thr Trp Ser Gly Cys Ile Met Gly Asp Thr Gly Tyr Tyr Leu Pro Lys			
	450	455	460
Lys Phe Thr Gln Cys Asn Ile Glu Glu Tyr His Asp Phe Leu Asn Ser			
465	470	475	480
Gly Gly Gly Ala Cys Leu Phe Asn Lys Pro Ser Lys Leu Leu Asp Pro			
	485	490	495
Pro Glu Cys Gly Asn Gly Phe Ile Glu Thr Gly Glu Glu Cys Asp Cys			
	500	505	510
Gly Thr Pro Ala Glu Cys Val Leu Glu Gly Ala Glu Cys Cys Lys Lys			
	515	520	525
Cys Thr Leu Thr Gln Asp Ser Gln Cys Ser Asp Gly Leu Cys Cys Lys			
	530	535	540
Lys Cys Lys Phe Gln Pro Met Gly Thr Val Cys Arg Glu Ala Val Asn			
545	550	555	560
Asp Cys Asp Ile Arg Glu Thr Cys Ser Gly Asn Ser Ser Gln Cys Ala			
	565	570	575
Pro Asn Ile His Lys Met Asp Gly Tyr Ser Cys Asp Gly Val Gln Gly			
	580	585	590
Ile Cys Phe Gly Gly Arg Cys Lys Thr Arg Asp Arg Gln Cys Lys Tyr			
	595	600	605
Ile Trp Gly Gln Lys Val Thr Ala Ser Asp Lys Tyr Cys Tyr Glu Lys			
	610	615	620
Leu Asn Ile Glu Gly Thr Glu Lys Gly Asn Cys Gly Lys Asp Lys Asp			
625	630	635	640
Thr Trp Ile Gln Cys Asn Lys Arg Asp Val Leu Cys Gly Tyr Leu Leu			
	645	650	655
Cys Thr Asn Ile Gly Asn Ile Pro Arg Leu Gly Glu Leu Asp Gly Glu			

660	665	670
Ile Thr Ser Thr Leu Val Val	Gln Gln Gly Arg Thr	Leu Asn Cys Ser
675	680	685
Gly Gly His Val Lys Leu Glu	Glu Asp Val Asp Leu	Gly Tyr Val Glu
690	695	700
Asp Gly Thr Pro Cys Gly Pro	Gln Met Met Cys Leu	Glu His Arg Cys
705	710	715
720		
Leu Pro Val Ala Ser Phe Asn	Phe Ser Thr Cys Leu	Ser Ser Lys Glu
725	730	735
Gly Thr Ile Cys Ser Gly Asn	Gly Val Cys Ser Asn	Glu Leu Lys Cys
740	745	750
Val Cys Asn Arg His Trp Ile	Gly Ser Asp Cys Asn	Thr Tyr Phe Pro
755	760	765
His Asn Asp Asp Ala Lys Thr	Gly Ile Thr Leu Ser	Gly Asn Gly Val
770	775	780
Ala Gly Thr Asn Ile Ile Ile	Gly Ile Ile Ala Gly	Thr Ile Leu Val
785	790	795
800		
Leu Ala Leu Ile Leu Gly Ile	Thr Ala Trp Gly Tyr	Lys Asn Tyr Arg
805	810	815
Glu Gln Arg Gln Leu Pro Gln	Gly Asp Tyr Val Lys	Lys Pro Gly Gly
820	825	830
Gly Asp Ser Phe Tyr Ser Asp	Ile Pro Pro Gly Val	Ser Thr Asn Ser
835	840	845
Ala Ser Ser Ser Lys Lys Arg	Ser Asn Gly Leu Ser	His Ser Trp Ser
850	855	860
Glu Arg Ile Pro Asp Thr Lys	His Ile Ser Asp Ile	Cys Glu Asn Gly
865	870	875
880		
Arg Pro Arg Ser Asn Ser Trp	Gln Gly Asn Leu Gly	Gly
885	890	

<210> 3305

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3305

Met Phe Leu Gln Pro Ser Thr Pro Ser Ser Phe Ala Ser His Pro Ser
 1 5 10 15
 Leu Leu Leu His Leu Phe Ser Tyr Ile His Tyr Gly Phe Pro Phe Phe
 20 25 30
 Gln Lys Ser Thr Ser Ser Leu Thr Phe Gly Asp Gly Gly Arg Val Pro
 35 40 45
 Gln Ile Val Pro Asp Leu Ala Ser Glu Ser Pro Phe Glu Cys Leu Leu
 50 55 60
 Tyr Pro Ser Ile Phe Gly Ser Thr Pro Leu Ile Ser Asp Leu Thr Arg
 65 70 75 80
 Cys Ser Gly Pro Leu Gly Thr Ser His Gly Ser Val Phe Val Pro Gly
 85 90 95
 Ala Leu Val Pro Gly Thr Arg Cys Ala Tyr Cys Ser Trp Gly Val Phe
 100 105 110
 Ala Ser Cys Pro Ile Asp Asp
 115

<210> 3306

<211> 208

<212> PRT

<213> Homo sapiens

<400> 3306

Met Ser His Pro Ala Trp Thr Pro Cys Arg Ala Ser Pro Lys Arg Gln
 1 5 10 15
 Trp Thr Gln Ala Gly Ser Ser Thr Cys Thr Pro Ala Leu Arg His Ala
 20 25 30
 Phe Ser Leu Asp Val Ala Ser Ala Trp Val Leu Pro Leu Arg Thr Ser
 35 40 45
 Arg Gly Ala Gly Gly Ala Ala Cys Cys His Pro His Trp Gly His Lys
 50 55 60
 Thr Ser Ala Val Glu Gly Ala Gln Ser Gln Leu His Pro Gly Pro Ser
 65 70 75 80
 Thr Ala Pro Arg Cys Gln Val Leu Leu Pro His Ser Pro Gly Pro Trp

	85		90		95										
Pro	Ala	Gly	Ala	Gly	Ala	Thr	Pro	Ala	Trp	Gly	Pro	Ala	Glu	Gly	Gly
	100		105		110										
Trp	Ala	Ser	Ser	Gln	Asp	Pro	Gln	His	Leu	Leu	Leu	Glu	Arg	Gly	Gly
	115		120		125										
Arg	Ala	Ser	Asp	Pro	Val	Pro	Ala	Arg	Trp	Glu	Gln	Asp	Thr	Asp	Gly
	130		135		140										
Phe	Val	Leu	Met	Ala	Asn	Ala	Ser	Glu	Met	Asp	Arg	Gln	Ser	His	Pro
145			150		155									160	
Val	Ala	Phe	Thr	Val	Thr	Ile	Leu	Pro	Val	Asn	Gly	Gln	Pro	Pro	Thr
	165		170		175										
Ser	Tyr	Lys	Leu	Arg	Pro	Ala	Gly	Ala	Leu	Asp	Gly	Gly	Ile	His	Phe
	180		185		190										
Gly	Leu	Ser	Asp	Gly	Glu	His	Thr	Ser	Ser	Arg	His	Leu	Ser	Ser	Glu
	195		200		205										

<210> 3307

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3307

Met	Leu	Thr	Leu	His	Gly	Ala	Ser	Ser	Arg	Phe	Pro	Gly	Lys	Ser	Gly
1			5		10				15						
Ser	Arg	Arg	Ser	Ser	Leu	Ile	Ser	Gln	Pro	Leu	Trp	Arg	Arg	Glu	Tyr
	20		25		30										
Gln	Lys	Gln	Asp	Glu	Ser	Gln	Val	Lys	Ser	Leu	Ser	Leu	Gly	Ser	Pro
	35		40		45										
Lys	Gly	Gln	Val	Leu	Thr	Ser	Gln	Arg	Pro	Gly	Pro	Ala	Gly	Pro	His
	50		55		60										
Gly	Ser	Thr	Thr	Pro	Ser	Arg	Cys	Pro	Arg	Pro	Phe	Val	Ser	His	Pro
65			70		75									80	
Ala	Phe	Ser	Arg	Ile	Ser	Lys	Asp	Ala	Arg	Leu	Asp	Pro	Gln	Ser	Trp
	85		90		95										
Lys	Thr	Ala	Val	Pro	Gly	Ser	His	Gln	Asn	Gly	Glu	Ala	Ser	Ser	Ser

100 105 110
His

<210> 3308

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3308

Met Lys Leu Arg Cys Tyr Leu Lys Leu Thr Ala Pro Asn Arg Pro Asp
1 5 10 15
Ser Gln Cys Pro Pro Arg Thr Ser Val Pro Ala Asp Leu Ala Ser Gly
20 25 30
Val Thr Ser Gly Glu Pro Phe Lys Ser Pro His Leu Ala Ser His Ser
35 40 45
Trp Pro Thr Leu Cys Ser Arg Ala Asn Gln Val Ala Asn Asp Lys Arg
50 55 60
Leu Ser Trp Pro Asn Ser Ser Leu Ala Trp Ile Thr Pro Ile Arg Cys
65 70 75 80
Gln Arg Cys Leu Leu Arg Trp Lys Asn Gln Ser Gly Ser Gly Val Arg
85 90 95
His Gln Gly Lys Gln Ala Asp Leu Glu Glu Ile Lys Tyr Ala Cys Ser
100 105 110
Leu Pro Ile Gln Val
115

<210> 3309

<211> 131

<212> PRT

<213> Homo sapiens

<400> 3309

Met Val Pro Arg Pro Leu Gln Thr Arg Val Pro Gly Cys Phe Ser Lys

1 5 10 15
 Gly Cys Glu Gly Thr Gly Gln Arg Gly Trp Val Trp Gly Arg Glu His
 20 25 30
 Ile Asp Val Gly Ala His Ser Val Gly Thr Gly Arg Gln Leu Leu Cys
 35 40 45
 Gln Ala Phe Ile Phe Pro Ile Leu Tyr Met Arg Lys Leu Gly Ser Gly
 50 55 60
 Gly Glu Gly Cys Leu Ala Asp Val Trp Pro Gly Gly Gly Gly Pro Gly
 65 70 75 80
 Leu Glu Pro Gln Ala Pro Pro Ser Ser Cys Lys Ser Pro Ala Gln Arg
 85 90 95
 Arg Gly Gly Ser Trp Gly Leu Ser Ser Leu Gln Asp Arg Val His Leu
 100 105 110
 Ser Ser Ser Ile Ile His Ser Phe Ile His Ser Phe Asn Lys Cys Leu
 115 120 125
 Ala Ser Gly
 130

<210> 3310

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3310

Met Leu Ala Glu Trp Gly Ala Cys Leu Leu Leu Ala Val Ala Leu Leu
 1 5 10 15
 Gly Pro Gly Leu Gln Ala Gln Ala Met Glu Gly Val Lys Cys Gly Gly
 20 25 30
 Val Leu Ser Ala Pro Ser Gly Asn Phe Ser Ser Pro Asn Phe Pro Arg
 35 40 45
 Leu Tyr Pro Tyr Asn Thr Glu Cys Ser Trp Leu Ile Val Val Ala Glu
 50 55 60
 Gly Ser Ser Val Leu Leu Thr Phe His Ala Phe Asp Leu Glu Tyr His
 65 70 75 80
 Asp Thr Cys Ser Phe Asp Phe Leu Glu Ile Tyr Asn Gly Ala Ser Pro

	85		90		95										
Asp	Lys	Gly	Asn	Leu	Leu	Gly	Arg	Phe	Cys	Gly	Lys	Val	Pro	Pro	Pro
	100		105		110										
Pro	Phe	Thr	Ser	Ser	Trp	His	Val	Met	Ser	Val	Ile	Phe	His	Ser	Asp
	115		120		125										
Lys	His	Val	Ala	Ser	His	Gly	Phe	Ser	Ala	Gly	Tyr	Gln	Lys	Gly	Gln
	130		135		140										
Arg	Gly	Ala	Leu	Gly	Thr	Cys	Cys	Ser	Gly	Ser	His	Leu			
145			150		155										

<210> 3311

<211> 630

<212> PRT

<213> Homo sapiens

<400> 3311

Met	Lys	Ile	Gly	Gln	Gly	Lys	Tyr	Glu	Pro	Gly	Phe	Phe	Pro	Lys	Leu
1			5					10					15		
Gln	Ser	Asp	Val	Leu	Ser	Thr	Gly	Pro	Ala	Ser	Asn	Lys	Trp	Thr	Lys
	20						25					30			
Arg	Asn	Ala	Pro	Ala	Gln	Trp	Arg	Arg	Lys	Asp	Arg	Gln	Lys	Gln	His
	35					40					45				
Thr	Glu	His	Leu	Arg	Leu	Asp	Asn	Asp	Gln	Arg	Glu	Lys	Tyr	Ile	Gln
	50				55				60						
Glu	Ala	Arg	Thr	Met	Gly	Ser	Thr	Ile	Arg	Gln	Pro	Lys	Leu	Ser	Asn
65				70				75					80		
Leu	Ser	Pro	Ser	Val	Ile	Ala	Gln	Thr	Asn	Trp	Lys	Phe	Val	Glu	Gly
	85						90					95			
Leu	Leu	Lys	Glu	Cys	Arg	Asn	Lys	Thr	Lys	Arg	Met	Leu	Val	Glu	Lys
	100						105					110			
Met	Gly	Arg	Glu	Ala	Val	Glu	Leu	Gly	His	Gly	Glu	Val	Asn	Ile	Thr
	115						120					125			
Gly	Val	Glu	Glu	Asn	Thr	Leu	Ile	Ala	Ser	Leu	Cys	Asp	Leu	Leu	Glu
	130					135						140			

Arg Ile Trp Ser His Gly Leu Gln Val Lys Gln Gly Lys Ser Ala Leu
 145 150 155 160
 Trp Ser His Leu Leu His Tyr Gln Asp Asn Arg Gln Arg Lys Leu Thr
 165 170 175
 Ser Gly Ser Leu Ser Thr Ser Gly Ile Leu Leu Asp Ser Glu Arg Arg
 180 185 190
 Lys Ser Asp Ala Ser Ser Leu Met Pro Pro Leu Arg Ile Ser Leu Ile
 195 200 205
 Gln Asp Met Arg His Ile Gln Asn Ile Gly Glu Ile Lys Thr Asp Val
 210 215 220
 Gly Lys Ala Arg Ala Trp Val Arg Leu Ser Met Glu Lys Lys Leu Leu
 225 230 235 240
 Ser Arg His Leu Lys Gln Leu Leu Ser Asp His Glu Leu Thr Lys Lys
 245 250 255
 Leu Tyr Lys Arg Tyr Ala Phe Leu Arg Cys Asp Asp Glu Lys Glu Gln
 260 265 270
 Phe Leu Tyr His Leu Leu Ser Phe Asn Ala Val Asp Tyr Phe Cys Phe
 275 280 285
 Thr Asn Val Phe Thr Thr Ile Leu Ile Pro Tyr His Ile Leu Ile Val
 290 295 300
 Pro Ser Lys Lys Leu Gly Gly Ser Met Phe Thr Ala Asn Pro Trp Ile
 305 310 315 320
 Cys Ile Ser Gly Glu Leu Gly Glu Thr Gln Ile Met Gln Ile Pro Arg
 325 330 335
 Asn Val Leu Glu Met Thr Phe Glu Cys Gln Asn Leu Gly Lys Leu Thr
 340 345 350
 Thr Val Gln Ile Gly His Asp Asn Ser Gly Leu Tyr Ala Lys Trp Leu
 355 360 365
 Val Glu Tyr Val Met Val Arg Asn Glu Ile Thr Gly His Thr Tyr Lys
 370 375 380
 Phe Pro Cys Gly Arg Trp Leu Gly Lys Gly Met Asp Asp Gly Ser Leu
 385 390 395 400
 Glu Arg Ile Leu Val Gly Glu Leu Leu Thr Ser Gln Pro Glu Val Asp
 405 410 415
 Glu Arg Pro Cys Arg Thr Pro Pro Leu Gln Gln Ser Pro Ser Val Ile
 420 425 430

Arg	Arg	Leu	Val	Thr	Ile	Ser	Pro	Asn	Asn	Lys	Pro	Lys	Leu	Asn	Thr		
435				440				445									
Gly	Gln	Ile	Gln	Glu	Ser	Ile	Gly	Glu	Ala	Val	Asn	Gly	Ile	Val	Lys		
450				455				460									
His	Phe	His	Lys	Pro	Glu	Lys	Glu	Arg	Gly	Ser	Leu	Thr	Leu	Leu	Leu		
465				470				475				480					
Cys	Gly	Glu	Cys	Gly	Leu	Val	Ser	Ala	Leu	Glu	Gln	Ala	Phe	Gln	His		
485				490				495									
Gly	Phe	Lys	Ser	Pro	Arg	Leu	Phe	Lys	Asn	Val	Phe	Ile	Trp	Asp	Phe		
500				505				510									
Leu	Glu	Lys	Ala	Gln	Thr	Tyr	Tyr	Glu	Thr	Leu	Glu	Lys	Asn	Glu	Val		
515				520				525									
Val	Pro	Glu	Glu	Asn	Trp	His	Thr	Arg	Ala	Arg	Asn	Phe	Cys	Arg	Phe		
530				535				540									
Val	Thr	Ala	Ile	Asn	Asn	Thr	Pro	Arg	Asn	Ile	Gly	Lys	Asp	Gly	Lys		
545				550				555				560					
Phe	Gln	Met	Leu	Val	Cys	Leu	Gly	Ala	Arg	Asp	His	Leu	Leu	His	His		
565				570				575									
Trp	Ile	Ala	Leu	Leu	Ala	Asp	Cys	Pro	Ile	Thr	Ala	His	Met	Tyr	Glu		
580				585				590									
Asp	Val	Ala	Leu	Ile	Lys	Asp	His	Thr	Leu	Val	Asn	Ser	Leu	Ile	Arg		
595				600				605									
Val	Leu	Gln	Thr	Leu	Gln	Glu	Phe	Asn	Ile	Thr	Leu	Glu	Thr	Ser	Leu		
610				615				620									
Val	Lys	Gly	Ile	Asp	Ile												
625				630													

<210> 3312

 $\langle 211 \rangle$ 100

<212> PRT

<213> Homo sapiens

<400> 3312

Met Ser Arg Leu Ala Gly Gly Gln Ala Pro Tyr Leu Trp Glu Gln Gly

15

Phe Ala Gln Pro Pro Trp Asp Ala Leu Gly Leu Leu Thr Ala Gln Asp
 20 25 30
 Pro Ser Arg Glu Ala Ala Trp Ile Gly Gly Ser Gly Leu Thr Ala Gly
 35 40 45
 Leu Gly Leu Glu Pro Ser Pro Cys Pro Ala Gln Ala Pro Ala Glu Pro
 50 55 60
 Gly Ala Leu Ala Glu Ala Gly Leu Gly Ser Gly Ala Ala Arg Arg Pro
 65 70 75 80
 Pro Ile Ser His Ser Leu Gly Val Leu Arg Val Thr Gln Arg Thr Val
 85 90 95
 Lys Cys Trp Ile
 100

<210> 3313

<211> 635

<212> PRT

<213> Homo sapiens

<400> 3313

Met Ser Thr Cys Cys Trp Cys Thr Pro Gly Gly Ala Ser Thr Ile Asp
 1 5 10 15
 Phe Leu Lys Arg Tyr Ala Ser Asn Thr Pro Ser Gly Glu Phe Gln Thr
 20 25 30
 Ala Asp Glu Asp Leu Cys Tyr Cys Leu Glu Cys Val Ala Glu Tyr His
 35 40 45
 Lys Ala Arg Asp Glu Leu Pro Phe Leu His Glu Val Leu Trp Glu Leu
 50 55 60
 Glu Thr Leu Arg Leu Ile Asn His Phe Glu Lys Ser Met Lys Ala Glu
 65 70 75 80
 Ile Gly Asp Asp Asp Glu Leu Tyr Ile Val Asp Asn Asn Gly Glu Met
 85 90 95
 Pro Leu Phe Asp Ile Thr Gly Gln Asp Phe Glu Asn Lys Leu Arg Val
 100 105 110
 Pro Leu Leu Glu Ile Leu Lys Tyr Pro Tyr Leu Leu Leu His Glu Arg
 115 120 125

Val Asn Glu Leu Cys Val Glu Ala Leu Cys Arg Met Glu Gln Ala Asn			
130	135	140	
Cys Ser Phe Gln Val Phe Asp Lys His Pro Gly Ile Tyr Leu Phe Leu			
145	150	155	160
Val His Pro Asn Glu Met Val Arg Arg Trp Ala Ile Leu Thr Ala Arg			
165	170	175	
Asn Leu Gly Lys Val Asp Arg Asp Asp Tyr Tyr Asp Leu Gln Glu Val			
180	185	190	
Leu Leu Cys Leu Phe Lys Val Ile Glu Leu Gly Leu Leu Glu Ser Pro			
195	200	205	
Asp Ile Tyr Thr Ser Ser Val Leu Glu Lys Gly Lys Leu Ile Leu Leu			
210	215	220	
Pro Ser His Met Tyr Asp Thr Thr Asn Tyr Lys Ser Tyr Trp Leu Gly			
225	230	235	240
Ile Cys Met Leu Leu Thr Ile Leu Glu Glu Gln Ala Met Asp Ser Leu			
245	250	255	
Leu Leu Gly Ser Asp Lys Gln Asn Asp Phe Met Gln Ser Ile Leu His			
260	265	270	
Thr Met Glu Arg Glu Ala Asp Asp Asp Ser Val Asp Pro Phe Trp Pro			
275	280	285	
Ala Leu His Cys Phe Met Val Ile Leu Asp Arg Leu Gly Ser Lys Val			
290	295	300	
Trp Gly Gln Leu Met Asp Pro Ile Val Ala Phe Gln Thr Ile Ile Asn			
305	310	315	320
Asn Ala Ser Tyr Asn Arg Gly Ile Arg His Ile Arg Asn Ser Ser Val			
325	330	335	
Arg Thr Lys Leu Glu Pro Glu Ser Tyr Leu Asp Asp Met Val Thr Cys			
340	345	350	
Ser Gln Ile Val Tyr Asn Tyr Asn Pro Glu Lys Thr Lys Lys Asp Ser			
355	360	365	
Gly Trp Arg Thr Ala Ile Cys Pro Asp Tyr Cys Pro Asn Met Tyr Glu			
370	375	380	
Glu Met Glu Thr Leu Ala Ser Val Leu Gln Ser Asp Ile Gly Gln Asp			
385	390	395	400
Met Arg Val His Asn Ser Thr Phe Leu Arg Phe Ile Pro Phe Val Gln			
405	410	415	

Ser Leu Met Asp Leu Lys Asp Leu Gly Val Ala Tyr Ile Ala Gln Val
 420 425 430
 Val Asn His Leu Tyr Ser Glu Val Lys Glu Val Leu Asn Gln Thr Asp
 435 440 445
 Ala Val Cys Asp Lys Val Thr Glu Phe Phe Leu Leu Ile Leu Val Ser
 450 455 460
 Val Ile Glu Leu His Arg Asn Lys Lys Cys Leu His Leu Leu Trp Val
 465 470 475 480
 Ser Ser Gln Gln Trp Val Glu Ala Val Val Lys Cys Ala Lys Leu Pro
 485 490 495
 Thr Thr Ala Phe Thr Arg Ser Ser Glu Lys Ser Ser Gly Asn Cys Ser
 500 505 510
 Lys Gly Thr Ala Met Ile Ser Ser Leu Ser Leu His Ser Met Pro Ser
 515 520 525
 Asn Ser Val Gln Leu Ala Tyr Val Gln Leu Ile Arg Ser Leu Leu Lys
 530 535 540
 Glu Gly Tyr Gln Leu Gly Gln Gln Ser Leu Cys Lys Arg Phe Trp Asp
 545 550 555 560
 Lys Leu Asn Leu Phe Leu Arg Gly Asn Leu Ser Leu Gly Trp Gln Leu
 565 570 575
 Thr Ser Gln Glu Thr His Glu Leu Gln Ser Cys Leu Lys Gln Ile Ile
 580 585 590
 Arg Asn Ile Lys Phe Lys Ala Pro Pro Cys Asn Thr Phe Val Asp Leu
 595 600 605
 Thr Ser Ala Cys Lys Ile Ser Pro Ala Ser Tyr Asn Lys Glu Glu Ser
 610 615 620
 Ser Leu Ser Ser Phe Asn Ile Ser Tyr Phe Lys
 625 630 635

<210> 3314

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3314

Met Gln Gly Lys Cys Phe Ser Arg Thr Ser Leu Leu Ser Lys Gly Thr
 1 5 10 15
 Gln Gln Ser Gly Cys Thr Leu Cys Asp Leu Pro Ser Gln His Val Pro
 20 25 30
 Pro Leu Ser Pro Arg Arg Glu Arg Gln Glu Arg Val Phe Thr Val Ser
 35 40 45
 Val Ser Leu Ser His Gln Ala Gly Val Gln Trp Pro Asp Leu Gly Ser
 50 55 60
 Leu His Pro Leu Thr Pro Trp Phe Lys Gln Phe Ser Cys Leu Ser Leu
 65 70 75 80
 Pro Arg Ser Trp Asp Ser Arg His Ala Pro Pro Leu Pro Ala Asn Phe
 85 90 95
 Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp Ser
 100 105 110
 Leu Ser

<210> 3315

<211> 221

<212> PRT

<213> Homo sapiens

<400> 3315

Met Val Leu Asp Lys Arg Ala Gly Lys Lys Arg Ala Ala Arg Gly Gly
 1 5 10 15
 Phe Cys Pro Arg Arg Pro Gln Ala Gly Gly Pro His Gly Leu Cys Pro
 20 25 30
 Asp Val Leu Leu Leu His Pro Ala Ala Pro Thr Thr Glu Thr Ala Pro
 35 40 45
 Gly Glu Gly Thr Thr Leu Ser Thr Gly Gln Pro Val Ser Pro Gly Arg
 50 55 60
 Leu Leu Ala His His Ser Trp Gly Pro Glu Glu Ala Pro Ala Gly Gly
 65 70 75 80
 Gly Ser Gly Pro Gly Leu Ser Leu Ser Leu His Thr Asp Trp Ser Pro

	85	90	95
Ala Leu Ser Pro Thr Gly Thr Leu Arg Gly Asn Phe Ser Lys Val Leu			
	100	105	110
Trp Gly Gln Arg Glu Val Val Glu Pro Ala Arg Leu Trp Glu Ala Pro			
	115	120	125
Glu Lys Leu Pro Leu Pro Thr Ser Val Leu Ala Gly Phe Gly Pro Trp			
	130	135	140
Ala Gly Pro Pro Gln Ala Pro Lys Gly Lys Val Val Gln Gly Lys Ala			
145	150	155	160
Leu Glu Ala Ala Gly Ile Arg Val Gly His Thr Glu Gly Tyr Gln Val			
	165	170	175
Leu Trp Gly Pro Trp Gly Pro Ala Leu Glu Ala Asp Arg Ser Thr Gly			
	180	185	190
Leu Arg Met Ser Cys Cys Pro Arg Thr Trp Trp Ser Gly Pro Gly Arg			
	195	200	205
Ala Ala Pro Pro Pro Pro Ile Pro His Leu Val Ile Thr			
	210	215	220

<210> 3316

<211> 256

<212> PRT

<213> Homo sapiens

<400> 3316

Met Gly Cys Ala Arg Arg His Ala Gly Pro Arg Gly Ser Pro Val Lys			
1	5	10	15
Gly Ser Gly Gly Leu Asp Ser Leu Trp Ala Trp Gly Gly Val Val Ser			
	20	25	30
Leu Cys Trp Leu Ser Tyr Arg Trp Trp Pro Val Ser Pro Gly Ser Gly			
	35	40	45
Cys Ser His Val Pro Ala Pro Thr Leu Pro Ala Arg Asp Arg Pro His			
	50	55	60
Gln Asp Pro Gly Ala Ala Pro Ala Ser Ala Arg Leu Ser Pro Arg Ser			
65	70	75	80
Gln Val Arg Pro Gln Pro Leu Arg His Ala Ser Gly Ser Ser Cys Cys			

	85	90	95
Thr Cys Ser Ser Pro Cys Ala Ser Thr Leu Leu Ser Gly Phe Leu Pro			
100	105	110	
Leu Ala Thr Gly Arg Val Cys Val Lys Pro Gln Gly Leu Gln Lys Leu			
115	120	125	
Glu Val Pro Leu Ser Gly Arg Ile Met His Cys Thr Arg Gly Ile Lys			
130	135	140	
Gly Gly Asp Arg Lys Asn Tyr Gly Cys Cys Asp Thr Ser Pro Thr Ala			
145	150	155	160
Pro Arg Leu Ala Ala Thr Ala Thr Arg Arg Asp Phe Ser Val Ala Ser			
165	170	175	
Arg Gly Val Gly Gln Arg Trp Ser Leu Val Thr Phe Ser Leu Gly Pro			
180	185	190	
Ala Pro Gly Leu Ser Ser Leu Gly Asn Ser Thr Ser Leu Ser Thr Pro			
195	200	205	
Leu Glu Gly Leu Thr Met Arg Gly Ala Gln Thr Gly Gly Ile Thr Thr			
210	215	220	
Trp Phe Gly Leu Tyr His Ser Pro Arg Asp Lys Ala Arg Gln Thr Pro			
225	230	235	240
Leu His Ile Arg Ser Glu Phe Glu Leu Trp Leu His Asp Thr Asp Thr			
245	250	255	

<210> 3317

<211> 639

<212> PRT

<213> Homo sapiens

<400> 3317

Met Gly Pro Gln Gly Ala Arg Arg Gln Ala Phe Leu Ala Phe Gly Asp			
1	5	10	15
Val Thr Val Asp Phe Thr Gln Lys Glu Trp Arg Leu Leu Ser Pro Ala			
20	25	30	
Gln Arg Ala Leu Tyr Arg Glu Val Thr Leu Glu Asn Tyr Ser His Leu			
35	40	45	
Val Ser Leu Gly Ile Leu His Ser Lys Pro Glu Leu Ile Arg Arg Leu			

50	55	60
Glu Gln Gly Glu Val Pro Trp Gly Glu Glu Arg Arg Arg Arg Pro Gly		
65	70	75
Pro Cys Ala Gly Ile Tyr Ala Glu His Val Leu Arg Pro Lys Asn Leu		
85	90	95
Gly Leu Ala His Gln Arg Gln Gln Gln Leu Gln Phe Ser Asp Gln Ser		
100	105	110
Phe Gln Ser Asp Thr Ala Glu Gly Gln Glu Lys Glu Lys Ser Thr Lys		
115	120	125
Pro Met Ala Phe Ser Ser Pro Pro Leu Arg His Ala Val Ser Ser Arg		
130	135	140
Arg Arg Asn Ser Val Val Glu Ile Glu Ser Ser Gln Gly Gln Arg Glu		
145	150	155
Asn Pro Thr Glu Ile Asp Lys Val Leu Lys Gly Ile Glu Asn Ser Arg		
165	170	175
Trp Gly Ala Phe Lys Cys Ala Glu Arg Gly Gln Asp Phe Ser Arg Lys		
180	185	190
Met Met Val Ile Ile His Lys Lys Ala His Ser Arg Gln Lys Leu Phe		
195	200	205
Thr Cys Arg Glu Cys His Gln Gly Phe Arg Asp Glu Ser Ala Leu Leu		
210	215	220
Leu His Gln Asn Thr His Thr Gly Glu Lys Ser Tyr Val Cys Ser Val		
225	230	235
Cys Gly Arg Gly Phe Ser Leu Lys Ala Asn Leu Leu Arg His Gln Arg		
245	250	255
Thr His Ser Gly Glu Lys Pro Phe Leu Cys Lys Val Cys Gly Arg Gly		
260	265	270
Tyr Thr Ser Lys Ser Tyr Leu Thr Val His Glu Arg Thr His Thr Gly		
275	280	285
Glu Lys Pro Tyr Glu Cys Gln Glu Cys Gly Arg Arg Phe Asn Asp Lys		
290	295	300
Ser Ser Tyr Asn Lys His Leu Lys Ala His Ser Gly Glu Lys Pro Phe		
305	310	315
Val Cys Lys Glu Cys Gly Arg Gly Tyr Thr Asn Lys Ser Tyr Phe Val		
325	330	335

Val His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr Arg Cys Gln Glu
 340 345 350
 Cys Gly Arg Gly Phe Ser Asn Lys Ser His Leu Ile Thr His Gln Arg
 355 360 365
 Thr His Ser Gly Glu Lys Pro Phe Ala Cys Arg Gln Cys Lys Gln Ser
 370 375 380
 Phe Ser Val Lys Gly Ser Leu Leu Arg His Gln Arg Thr His Ser Gly
 385 390 395 400
 Glu Lys Pro Phe Val Cys Lys Asp Cys Glu Arg Ser Phe Ser Gln Lys
 405 410 415
 Ser Thr Leu Val Tyr His Gln Arg Thr His Ser Gly Glu Lys Pro Phe
 420 425 430
 Val Cys Arg Glu Cys Gly Gln Gly Phe Ile Gln Lys Ser Thr Leu Val
 435 440 445
 Lys His Gln Ile Thr His Ser Glu Glu Lys Pro Phe Val Cys Lys Asp
 450 455 460
 Cys Gly Arg Gly Phe Ile Gln Lys Ser Thr Phe Thr Leu His Gln Arg
 465 470 475 480
 Thr His Ser Glu Glu Lys Pro Tyr Gly Cys Arg Glu Cys Gly Arg Arg
 485 490 495
 Phe Arg Asp Lys Ser Ser Tyr Asn Lys His Leu Arg Ala His Leu Gly
 500 505 510
 Glu Lys Arg Phe Phe Cys Arg Asp Cys Gly Arg Gly Phe Thr Leu Lys
 515 520 525
 Pro Asn Leu Thr Ile His Gln Arg Thr His Ser Gly Glu Lys Pro Phe
 530 535 540
 Val Cys Asn Val Cys Gly Gln Gly Phe Ser Trp Lys Arg Ser Leu Thr
 545 550 555 560
 Arg His His Trp Arg Ile His Ser Lys Glu Lys Pro Phe Val Cys Gln
 565 570 575
 Glu Cys Lys Arg Gly Tyr Thr Ser Lys Ser Asp Leu Thr Val His Glu
 580 585 590
 Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Gln Glu Cys Gly Arg
 595 600 605
 Lys Phe Ser Asn Lys Ser Tyr Tyr Ser Lys His Leu Lys Arg His Leu
 610 615 620

Arg Glu Lys Arg Phe Cys Thr Gly Ser Val Gly Glu Ala Ser Ser
 625 630 635

<210> 3318

<211> 249

<212> PRT

<213> Homo sapiens

<400> 3318

Met Thr Ser Trp Ile Pro Leu Met Pro Gly Asp Ser Ala Asp Leu Phe
 1 5 10 15
 Gly Asp Gly Thr Thr Glu Asp Gly Ser Ala Ala Asn Gly Arg Leu Trp
 20 25 30
 Arg Thr Val Ile Ile Gly Glu Gln Glu His Arg Ile Asp Leu His Met
 35 40 45
 Ile Arg Pro Tyr Met Lys Val Val Thr His Gly Gly Tyr Tyr Gly Glu
 50 55 60
 Gly Leu Asn Ala Ile Ile Val Phe Ala Ala Cys Phe Leu Pro Asp Ser
 65 70 75 80
 Ser Leu Pro Asp Tyr His Tyr Ile Met Glu Asn Leu Phe Leu Tyr Val
 85 90 95
 Ile Ser Ser Leu Glu Leu Leu Val Ala Glu Asp Tyr Met Ile Val Tyr
 100 105 110
 Leu Asn Gly Ala Thr Pro Arg Arg Arg Met Pro Gly Ile Gly Trp Leu
 115 120 125
 Lys Lys Cys Tyr Gln Met Ile Gly Arg Arg Leu Arg Lys Asn Leu Lys
 130 135 140
 Ser Leu Ile Ile Val His Pro Ser Trp Phe Ile Arg Thr Val Leu Ala
 145 150 155 160
 Ile Ser Arg Pro Phe Ile Ser Val Lys Phe Ile Asn Lys Ile Gln Tyr
 165 170 175
 Val His Ser Leu Glu Asp Leu Glu Gln Leu Ile Pro Met Glu His Val
 180 185 190
 Gln Ile Pro Asp Cys Val Leu Gln Tyr Glu Glu Glu Arg Leu Lys Ala
 195 200 205

Arg Arg Glu Ser Ala Arg Pro Gln Pro Glu Phe Val Leu Pro Arg Ser
 210 215 220
 Glu Glu Lys Pro Glu Val Ala Pro Val Glu Asn Arg Ser Ala Leu Val
 225 230 235 240
 Ser Glu Asp Gln Glu Thr Ser Met Ser
 245

<210> 3319

<211> 959

<212> PRT

<213> Homo sapiens

<400> 3319

Met Ala Pro Tyr Gln Gly Pro Ala Leu Tyr Val Tyr Asn Asn Ala Val
 1 5 10 15
 Phe Thr Pro Glu Asp Trp His Gly Ile Gln Glu Ile Ala Arg Ser Arg
 20 25 30
 Lys Lys Asp Asp Pro Leu Lys Val Gly Arg Phe Gly Ile Gly Phe Asn
 35 40 45
 Ser Val Tyr His Ile Thr Asp Val Pro Cys Ile Phe Ser Gly Asp Gln
 50 55 60
 Ile Gly Met Leu Asp Pro His Gln Thr Leu Phe Gly Pro His Glu Ser
 65 70 75 80
 Gly Gln Cys Trp Asn Leu Lys Asp Asp Ser Lys Glu Ile Ser Glu Leu
 85 90 95
 Ser Asp Gln Phe Ala Pro Phe Val Gly Ile Phe Gly Ser Thr Lys Glu
 100 105 110
 Thr Phe Ile Asn Gly Asn Phe Pro Gly Thr Phe Phe Arg Phe Pro Leu
 115 120 125
 Arg Leu Gln Pro Ser Gln Leu Ser Ser Asn Leu Tyr Asn Lys Gln Lys
 130 135 140
 Val Leu Glu Leu Phe Glu Ser Phe Arg Ala Asp Ala Asp Thr Val Leu
 145 150 155 160
 Leu Phe Leu Lys Ser Val Gln Asp Val Ser Leu Tyr Val Arg Glu Ala
 165 170 175

Asp Gly Thr Glu Lys Leu Val Phe Arg Val Thr Ser Ser Glu Ser Lys
 180 185 190
 Ala Leu Lys His Glu Arg Pro Asn Ser Ile Lys Ile Leu Gly Thr Ala
 195 200 205
 Ile Ser Asn Tyr Cys Lys Lys Thr Pro Ser Asn Asn Ile Thr Cys Val
 210 215 220
 Thr Tyr His Val Asn Ile Val Leu Glu Glu Glu Ser Thr Lys Asp Ala
 225 230 235 240
 Gln Lys Thr Ser Trp Leu Val Cys Asn Ser Val Gly Gly Arg Gly Ile
 245 250 255
 Ser Ser Lys Leu Asp Ser Leu Ala Asp Glu Leu Lys Phe Val Pro Ile
 260 265 270
 Ile Gly Ile Ala Met Pro Leu Ser Ser Arg Asp Asp Glu Ala Lys Gly
 275 280 285
 Ala Thr Ser Asp Phe Ser Gly Lys Ala Phe Cys Phe Leu Pro Leu Pro
 290 295 300
 Pro Gly Glu Glu Ser Ser Thr Gly Leu Pro Val His Ile Ser Gly Phe
 305 310 315 320
 Phe Gly Leu Thr Asp Asn Arg Arg Ser Ile Lys Trp Arg Glu Leu Asp
 325 330 335
 Gln Trp Arg Asp Pro Ala Ala Leu Trp Asn Glu Phe Leu Val Met Asn
 340 345 350
 Val Val Pro Lys Ala Tyr Ala Thr Leu Ile Leu Asp Ser Ile Lys Arg
 355 360 365
 Leu Glu Met Glu Lys Ser Ser Asp Phe Pro Leu Ser Val Asp Val Ile
 370 375 380
 Tyr Lys Leu Trp Pro Glu Ala Ser Lys Val Lys Val His Trp Gln Pro
 385 390 395 400
 Val Leu Glu Pro Leu Phe Ser Glu Leu Leu Gln Asn Ala Val Ile Tyr
 405 410 415
 Ser Ile Ser Cys Asp Trp Val Arg Leu Glu Gln Val Tyr Phe Ser Glu
 420 425 430
 Leu Asp Glu Asn Leu Glu Tyr Thr Lys Thr Val Leu Asn Tyr Leu Gln
 435 440 445
 Ser Ser Gly Lys Gln Ile Ala Lys Val Pro Gly Asn Val Asp Ala Ala
 450 455 460

Val Gln Leu Thr Ala Ala Ser Gly Thr Thr Pro Val Arg Lys Val Thr
 465 470 475 480
 Pro Ala Trp Val Arg Gln Val Leu Arg Lys Cys Ala His Leu Gly Cys
 485 490 495
 Ala Glu Glu Lys Leu His Leu Leu Glu Phe Val Leu Ser Asp Gln Ala
 500 505 510
 Tyr Ser Glu Leu Leu Gly Leu Glu Leu Leu Pro Leu Gln Asn Gly Asn
 515 520 525
 Phe Val Pro Phe Ser Ser Ser Val Ser Asp Gln Asp Val Ile Tyr Ile
 530 535 540
 Thr Ser Ala Glu Tyr Pro Arg Ser Leu Phe Pro Ser Leu Glu Gly Arg
 545 550 555 560
 Phe Ile Leu Asp Asn Leu Lys Pro His Leu Val Ala Ala Leu Lys Glu
 565 570 575
 Ala Ala Gln Thr Arg Gly Arg Pro Cys Thr Gln Leu Gln Leu Leu Asn
 580 585 590
 Pro Glu Arg Phe Ala Arg Leu Ile Lys Glu Val Met Asn Thr Phe Trp
 595 600 605
 Pro Gly Arg Glu Leu Ile Val Gln Trp Tyr Pro Phe Asp Glu Asn Arg
 610 615 620
 Asn His Pro Ser Val Ser Trp Leu Lys Met Val Trp Lys Asn Leu Tyr
 625 630 635 640
 Ile His Phe Ser Glu Asp Leu Thr Leu Phe Asp Glu Met Pro Leu Ile
 645 650 655
 Pro Arg Thr Ile Leu Glu Glu Gly Gln Thr Cys Val Glu Leu Ile Arg
 660 665 670
 Leu Arg Ile Pro Ser Leu Val Ile Leu Asp Asp Glu Ser Glu Ala Gln
 675 680 685
 Leu Pro Glu Phe Leu Ala Asp Ile Val Gln Lys Leu Gly Gly Phe Val
 690 695 700
 Leu Lys Lys Leu Asp Ala Ser Ile Gln His Pro Leu Ile Lys Lys Tyr
 705 710 715 720
 Ile His Ser Pro Leu Pro Ser Ala Val Leu Gln Ile Met Glu Lys Met
 725 730 735
 Pro Leu Gln Lys Leu Cys Asn Gln Ile Thr Ser Leu Leu Pro Thr His
 740 745 750

Lys Asp Ala Leu Arg Lys Phe Leu Ala Ser Leu Thr Asp Ser Ser Glu
 755 760 765
 Lys Glu Lys Arg Ile Ile Gln Glu Leu Ala Ile Phe Lys Arg Ile Asn
 770 775 780
 His Ser Ser Asp Gln Gly Ile Ser Ser Tyr Thr Lys Leu Lys Gly Cys
 785 790 795 800
 Lys Val Leu His His Thr Ala Lys Leu Pro Ala Asp Leu Arg Leu Ser
 805 810 815
 Ile Ser Val Ile Asp Ser Ser Asp Glu Ala Thr Ile Arg Leu Ala Asn
 820 825 830

 Met Leu Lys Ile Glu Gln Leu Lys Thr Thr Ser Cys Leu Lys Leu Val
 835 840 845
 Leu Lys Asp Ile Glu Asn Ala Phe Tyr Ser His Glu Glu Val Thr Gln
 850 855 860
 Leu Met Leu Trp Val Leu Glu Asn Leu Ser Ser Leu Lys Asn Glu Asn
 865 870 875 880
 Pro Asn Val Leu Glu Trp Leu Thr Pro Leu Lys Phe Ile Gln Ile Ser
 885 890 895
 Gln Glu Gln Met Val Ser Ala Gly Glu Leu Phe Asp Pro Asp Ile Glu
 900 905 910
 Val Leu Lys Asp Leu Phe Cys Asn Glu Glu Gly Thr Tyr Phe Pro Pro
 915 920 925
 Ser Val Phe Thr Ser Pro Asp Ile Leu His Ser Leu Arg Gln Ile Gly
 930 935 940
 Leu Lys Asn Glu Ala Ser Leu Lys Glu Lys Asp Val Val Gln Val
 945 950 955

<210> 3320

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3320

Met Gly Ser Ala Leu Gly Thr Ala Gly Ser Trp Ala Gln Lys Gly Gly

1	5	10	15												
Thr	Lys	Val	Cys	Val	Gln	His	Gln	Glu	Gln	Gln	Ala	Ala	Gly	His	Lys
	20						25						30		
Arg	Glu	Val	Leu	Gly	Met	Trp	Val	Gln	His	Gln	Gly	Gln	Arg	Ser	Thr
	35						40						45		
Lys	Gly	Lys	Arg	Cys	Gly	Tyr	Glu	Phe	Ser	Thr	Lys	Asp	Ser	Gly	Gln
	50					55						60			
Leu	Ile	Leu	Ala	Gly	Val	Leu	Gly	Met	His	Phe	Arg	His	Glu	Tyr	Gln
65					70					75				80	
Leu	Pro	Arg	Pro	Gly	Thr	Val	Val	His	Ala	Leu	Ile	Pro	Ala	Leu	Trp
				85					90				95		
Glu	Ala	Lys	Ala	Asp	Gly	Ser	Arg	Gly	Gln	Gln	Phe	Glu	Thr	Ser	Leu
	100							105				110			
Ala	Asn	Ile	Val	Lys	Leu	Cys	Leu	Tyr							
	115						120								

<210> 3321

<211> 1268

<212> PRT

<213> Homo sapiens

<400> 3321

Met	Arg	Glu	Leu	Glu	Met	Ser	Arg	Thr	Asn	Thr	Glu	Asn	Ile	Glu	Thr
1					5					10				15	
Ser	Thr	Glu	Thr	Ala	Glu	Ser	Ser	Ser	Glu	Ser	Leu	Ser	Ser	Leu	Glu
		20						25				30			
Gln	Leu	Asp	Leu	Leu	Phe	Glu	Lys	Glu	Gln	Gly	Ala	Val	Arg	Lys	Ala
		35					40					45			
Gly	Trp	Leu	Phe	Phe	Lys	Pro	Leu	Val	Thr	Val	Gln	Lys	Glu	Arg	Lys
	50				55						60				
Leu	Glu	Leu	Val	Ala	Arg	Arg	Lys	Trp	Lys	Gln	Tyr	Trp	Val	Thr	Leu
65					70					75				80	
Lys	Gly	Cys	Thr	Leu	Leu	Phe	Tyr	Glu	Thr	Tyr	Gly	Lys	Asn	Ser	Met
			85						90				95		
Asp	Gln	Ser	Ser	Ala	Pro	Arg	Cys	Ala	Leu	Phe	Ala	Glu	Asp	Ser	Ile

100	105	110
Val Gln Ser Val Pro Glu His Pro Lys Lys Glu Asn Val Phe Cys Leu		
115	120	125
Ser Asn Ser Phe Gly Asp Val Tyr Leu Phe Gln Ala Thr Ser Gln Thr		
130	135	140
Asp Leu Glu Asn Trp Val Thr Ala Val His Ser Ala Cys Ala Ser Leu		
145	150	155
Phe Ala Lys Lys His Gly Lys Glu Asp Thr Leu Arg Leu Leu Lys Asn		
165	170	175
Gln Thr Lys Asn Leu Leu Gln Lys Ile Asp Met Asp Ser Lys Met Lys		
180	185	190
Lys Met Ala Glu Leu Gln Leu Ser Val Val Ser Asp Pro Lys Asn Arg		
195	200	205
Lys Ala Ile Glu Asn Gln Ile Gln Gln Trp Glu Gln Asn Leu Glu Lys		
210	215	220
Phe His Met Asp Leu Phe Arg Met Arg Cys Tyr Leu Ala Ser Leu Gln		
225	230	235
Gly Gly Glu Leu Pro Asn Pro Lys Ser Leu Leu Ala Ala Ala Ser Arg		
245	250	255
Pro Ser Lys Leu Ala Leu Gly Arg Leu Gly Ile Leu Ser Val Ser Ser		
260	265	270
Phe His Ala Leu Val Cys Ser Arg Asp Asp Ser Ala Leu Arg Lys Arg		
275	280	285
Thr Leu Ser Leu Thr Gln Arg Gly Arg Asn Lys Lys Gly Ile Phe Ser		
290	295	300
Ser Leu Lys Gly Leu Asp Thr Leu Ala Arg Lys Gly Lys Glu Lys Arg		
305	310	315
Pro Ser Ile Thr Gln Val Asp Glu Leu Leu His Ile Tyr Gly Ser Thr		
325	330	335
Val Asp Gly Val Pro Arg Asp Asn Ala Trp Glu Ile Gln Thr Tyr Val		
340	345	350
His Phe Gln Asp Asn His Gly Val Thr Val Gly Ile Lys Pro Glu His		
355	360	365
Arg Val Glu Asp Ile Leu Thr Leu Ala Cys Lys Met Arg Gln Leu Glu		
370	375	380
Pro Ser His Tyr Gly Leu Gln Leu Arg Lys Leu Val Asp Asp Asn Val		

385	390	395	400
Glu Tyr Cys Ile Pro Ala Pro Tyr Glu Tyr Met Gln Gln Gln Val Tyr			
	405	410	415
Asp Glu Ile Glu Val Phe Pro Leu Asn Val Tyr Asp Val Gln Leu Thr			
	420	425	430
Lys Thr Gly Ser Val Cys Asp Phe Gly Phe Ala Val Thr Ala Gln Val			
	435	440	445
Asp Glu Arg Gln His Leu Ser Arg Ile Phe Ile Ser Asp Val Leu Pro			
	450	455	460
Asp Gly Leu Ala Tyr Gly Glu Gly Leu Arg Lys Gly Asn Glu Ile Met			
465	470	475	480
Thr Leu Asn Gly Glu Ala Val Ser Asp Leu Asp Leu Lys Gln Met Glu			
	485	490	495
Ala Leu Phe Ser Glu Lys Ser Val Gly Leu Thr Leu Ile Ala Arg Pro			
	500	505	510
Pro Asp Thr Lys Ala Thr Leu Cys Thr Ser Trp Ser Asp Ser Asp Leu			
	515	520	525
Phe Ser Arg Asp Gln Lys Ser Leu Leu Pro Pro Pro Asn Gln Ser Gln			
	530	535	540
Leu Leu Glu Glu Phe Leu Asp Asn Phe Lys Lys Asn Thr Ala Asn Asp			
545	550	555	560
Phe Ser Asn Val Pro Asp Ile Thr Thr Gly Leu Lys Arg Ser Gln Thr			
	565	570	575
Asp Gly Thr Leu Asp Gln Val Ser His Arg Glu Lys Met Glu Gln Thr			
	580	585	590
Phe Arg Ser Ala Glu Gln Ile Thr Ala Leu Cys Lys Ser Phe Asn Asp			
	595	600	605
Ser Gln Ala Asn Gly Met Glu Gly Pro Arg Glu Asn Gln Asp Pro Pro			
	610	615	620
Pro Arg Pro Leu Ala Arg His Leu Ser Asp Ala Asp Arg Leu Arg Lys			
625	630	635	640
Val Ile Gln Glu Leu Val Asp Thr Glu Lys Ser Tyr Val Lys Asp Leu			
	645	650	655
Ser Cys Leu Phe Glu Leu Tyr Leu Glu Pro Leu Gln Asn Glu Thr Phe			
	660	665	670
Leu Thr Gln Asp Glu Met Glu Ser Leu Phe Gly Ser Leu Pro Glu Met			

675	680	685
Leu Glu Phe Gln Lys Val Phe Leu Glu Thr Leu Glu Asp Gly Ile Ser		
690	695	700
Ala Ser Ser Asp Phe Asn Thr Leu Glu Thr Pro Ser Gln Phe Arg Lys		
705	710	715
Leu Leu Phe Pro Leu Gly Gly Ser Phe Leu Tyr Tyr Ala Asp His Phe		
725	730	735
Lys Leu Tyr Ser Gly Phe Cys Ala Asn His Ile Lys Val Gln Lys Val		
740	745	750
Leu Glu Arg Ala Lys Thr Asp Lys Ala Phe Lys Ala Phe Leu Asp Ala		
755	760	765
Arg Asn Pro Thr Lys Gln His Ser Ser Thr Leu Glu Ser Tyr Leu Ile		
770	775	780
Lys Pro Val Gln Arg Val Leu Lys Tyr Pro Leu Leu Leu Lys Glu Leu		
785	790	795
Val Ser Leu Thr Asp Gln Glu Ser Glu Glu His Tyr His Leu Thr Glu		
805	810	815
Ala Leu Lys Ala Met Glu Lys Val Ala Ser His Ile Asn Glu Met Gln		
820	825	830
Lys Ile Tyr Glu Asp Tyr Gly Thr Val Phe Asp Arg Leu Val Ala Glu		
835	840	845
Gln Ser Gly Thr Glu Lys Glu Gln Pro Glu Trp Ser Ser Glu Val Met		
850	855	860
Asp Val Leu Asp Pro Arg Gly Lys Leu Thr Lys Gly Thr Leu Glu Glu		
865	870	875
Pro Arg Thr Leu Val Thr Glu Leu Ser Met Gly Glu Leu Leu Met His		
885	890	895
Ser Thr Val Ser Trp Leu Asn Pro Phe Leu Ser Leu Gly Lys Ala Arg		
900	905	910
Lys Asp Leu Glu Leu Thr Val Phe Val Phe Lys Arg Ala Val Ile Leu		
915	920	925
Val Tyr Lys Lys Asn Cys Lys Leu Lys Lys Lys Leu Pro Ser Asn Ser		
930	935	940
Arg Pro Ala His Asn Ser Thr Asp Leu Asp Pro Phe Lys Phe Arg Trp		
945	950	955
Leu Ile Pro Ile Ser Ala Leu Gln Val Arg Leu Gly Asn Pro Ala Gly		

	965	970	975
Thr Glu Asn Asn Ser Ile Trp Glu Leu Ile His Thr Lys Ser Glu Ile			
980	985	990	
Glu Gly Arg Pro Glu Thr Ile Phe Gln Leu Cys Cys Ser Asp Ser Glu			
995	1000	1005	
Ser Lys Thr Asn Ile Val Lys Val Ile Arg Ser Ile Leu Arg Glu Asn			
1010	1015	1020	
Phe Arg Arg His Ile Lys Cys Glu Leu Pro Leu Glu Lys Thr Cys Lys			
1025	1030	1035	1040
Asp Arg Leu Val Pro Leu Lys Asn Arg Val Pro Val Ser Ala Lys Leu			
1045	1050	1055	
Ala Ser Ser Arg Ser Leu Lys Val Leu Lys Asn Ser Ser Ser Asn Glu			
1060	1065	1070	
Trp Thr Gly Glu Thr Gly Lys Gly Thr Leu Leu Asp Ser Tyr Glu Gly			
1075	1080	1085	
Ser Leu Ser Ser Gly Thr Gln Ser Ser Gly Cys Pro Thr Ala Glu Gly			
1090	1095	1100	
Arg Gln Asp Ser Lys Ser Thr Ser Pro Gly Lys Tyr Pro His Pro Gly			
1105	1110	1115	1120
Leu Ala Asp Phe Ala Asp Asn Leu Ile Lys Glu Ser Asp Ile Leu Ser			
1125	1130	1135	
Asp Glu Asp Asp Asp His Arg Gln Thr Val Lys Gln Gly Ser Pro Thr			
1140	1145	1150	
Lys Asp Ile Glu Ile Gln Phe Gln Arg Leu Arg Ile Ser Glu Asp Pro			
1155	1160	1165	
Asp Val His Pro Glu Ala Glu Gln Gln Pro Gly Pro Glu Ser Gly Glu			
1170	1175	1180	
Gly Gln Lys Gly Gly Glu Gln Pro Lys Leu Val Arg Gly His Phe Cys			
1185	1190	1195	1200
Pro Ile Lys Arg Lys Thr Asn Ser Thr Lys Arg Asp Arg Gly Thr Leu			
1205	1210	1215	
Leu Lys Ala Gln Ile Arg His Gln Ser Leu Asp Ser Gln Ser Glu Asn			
1220	1225	1230	
Ala Thr Ile Asp Leu Asn Ser Val Leu Glu Arg Glu Phe Ser Val Gln			
1235	1240	1245	
Ser Leu Thr Ser Val Val Ser Glu Glu Cys Phe Tyr Glu Thr Glu Ser			

1250
His Gly Lys Ser
1265

1255

1260

<210> 3322

<211> 514

<212> PRT

<213> Homo sapiens

<400> 3322

Met Glu Glu Asn Val Phe Trp Glu Cys Lys Ala Asn Gly Arg Pro Lys
1 5 10 15
Pro Thr Tyr Lys Trp Leu Lys Asn Gly Glu Pro Leu Leu Thr Arg Asp
20 25 30
Arg Ile Gln Ile Glu Gln Gly Thr Leu Asn Ile Thr Ile Val Asn Leu
35 40 45
Ser Asp Ala Gly Met Tyr Gln Cys Leu Ala Glu Asn Lys His Gly Val
50 55 60
Ile Phe Ser Asn Ala Glu Leu Ser Val Ile Ala Val Gly Pro Asp Phe
65 70 75 80
Ser Arg Thr Leu Leu Lys Arg Val Thr Leu Val Lys Val Gly Gly Glu
85 90 95
Val Val Ile Glu Cys Lys Pro Lys Ala Ser Pro Lys Pro Val Tyr Thr
100 105 110
Trp Lys Lys Gly Arg Asp Ile Leu Lys Glu Asn Glu Arg Ile Thr Ile
115 120 125
Ser Glu Asp Gly Asn Leu Arg Ile Ile Asn Val Thr Lys Ser Asp Ala
130 135 140
Gly Ser Tyr Thr Cys Ile Ala Thr Asn His Phe Gly Thr Ala Ser Ser
145 150 155 160
Thr Gly Asn Leu Val Val Lys Asp Pro Thr Arg Val Met Val Pro Pro
165 170 175
Ser Ser Met Asp Val Thr Val Gly Glu Ser Ile Val Leu Pro Cys Gln
180 185 190
Val Thr His Asp His Ser Leu Asp Ile Val Phe Thr Trp Ser Phe Asn

195	200	205
Gly His Leu Ile Asp Phe Asp Arg Asp Gly Asp His Phe Glu Arg Val		
210	215	220
Gly Gly Asp Ser Ala Gly Asp Leu Met Ile Arg Asn Ile Gln Leu Lys		
225	230	235
His Ala Gly Lys Tyr Val Cys Met Val Gln Thr Ser Val Asp Arg Leu		
245	250	255
Ser Ala Ala Ala Asp Leu Ile Val Arg Gly Pro Pro Gly Pro Pro Glu		
260	265	270
Ala Val Thr Ile Asp Glu Ile Thr Asp Thr Thr Ala Gln Leu Ser Trp		
275	280	285
Arg Pro Gly Pro Asp Asn His Ser Pro Ile Thr Met Tyr Val Ile Gln		
290	295	300
Ala Arg Thr Pro Phe Ser Val Gly Trp Gln Ala Val Ser Thr Val Pro		
305	310	315
Glu Leu Ile Asp Gly Lys Thr Phe Thr Ala Thr Val Val Gly Leu Asn		
325	330	335
Pro Trp Val Glu Tyr Glu Phe Arg Thr Val Ala Ala Asn Val Ile Gly		
340	345	350
Ile Gly Glu Pro Ser Arg Pro Ser Glu Lys Arg Arg Thr Glu Glu Ala		
355	360	365
Leu Pro Glu Val Thr Pro Ala Asn Val Ser Gly Gly Gly Gly Ser Lys		
370	375	380
Ser Glu Leu Val Ile Thr Trp Glu Thr Val Pro Glu Glu Leu Gln Asn		
385	390	395
Gly Arg Gly Phe Gly Tyr Val Val Ala Phe Arg Pro Tyr Gly Lys Met		
405	410	415
Ile Trp Met Leu Thr Val Leu Ala Ser Ala Asp Ala Ser Arg Tyr Val		
420	425	430
Phe Arg Asn Glu Ser Val His Pro Phe Ser Pro Phe Glu Val Lys Val		
435	440	445
Gly Val Phe Asn Asn Lys Gly Glu Gly Pro Phe Ser Pro Thr Thr Val		
450	455	460
Val Tyr Ser Ala Glu Glu Glu Pro Thr Lys Pro Pro Ala Ser Ile Phe		
465	470	475
Ala Arg Ser Leu Ser Ala Thr Asp Ile Glu Val Phe Trp Ala Ser Pro		

485 490 495
 Leu Glu Lys Asn Arg Gly Arg Ile Gln Gly Tyr Glu Val Lys Tyr Trp
 500 505 510
 Arg His

<210> 3323

<211> 429

<212> PRT

<213> Homo sapiens

<400> 3323

Met Leu Gly Lys Arg Phe Pro Asn Ile Lys Val Ile Glu Ser Gly Val
 1 5 10 15
 Lys Gln Leu Lys Ser Glu Glu His Cys Ile Val Thr Glu Asp Gly Asn
 20 25 30
 Gln His Val Tyr Lys Lys Leu Cys Leu Cys Ala Gly Ala Lys Pro Lys
 35 40 45
 Leu Ile Cys Glu Gly Asn Pro Tyr Val Leu Gly Ile Arg Asp Thr Asp
 50 55 60
 Ser Ala Gln Glu Phe Gln Lys Gln Leu Thr Lys Ala Lys Arg Ile Met
 65 70 75 80
 Ile Ile Gly Asn Gly Gly Ile Ala Leu Glu Leu Val Tyr Glu Ile Glu
 85 90 95
 Gly Cys Glu Val Ile Trp Ala Ile Lys Asp Lys Ala Ile Gly Asn Thr
 100 105 110
 Phe Phe Asp Ala Gly Ala Ala Glu Phe Leu Thr Ser Lys Leu Ile Ala
 115 120 125
 Glu Lys Ser Glu Ala Lys Ile Ala His Lys Arg Thr Arg Tyr Thr Thr
 130 135 140
 Glu Gly Arg Lys Lys Glu Ala Arg Ser Lys Ser Lys Ala Asp Asn Val
 145 150 155 160
 Gly Ser Ala Leu Gly Pro Asp Trp His Glu Gly Leu Asn Leu Lys Gly
 165 170 175
 Thr Lys Glu Phe Ser His Lys Ile His Leu Glu Thr Met Cys Glu Val

180	185	190
Lys Lys Ile Tyr Leu Gln Asp Glu Phe Arg Ile Leu Lys Lys Lys Ser		
195	200	205
Phe Thr Phe Pro Arg Asp His Lys Ser Val Thr Ala Asp Thr Glu Met		
210	215	220
Trp Pro Val Tyr Val Glu Leu Thr Asn Glu Lys Ile Tyr Gly Cys Asp		
225	230	235
Phe Ile Val Ser Ala Thr Gly Val Thr Pro Asn Val Glu Pro Phe Leu		
245	250	255
His Gly Asn Ser Phe Asp Leu Gly Glu Asp Gly Gly Leu Lys Val Asp		
260	265	270
Asp His Met His Thr Ser Leu Pro Asp Ile Tyr Ala Ala Gly Asp Ile		
275	280	285
Cys Thr Thr Ser Trp Gln Leu Ser Pro Val Trp Gln Gln Met Arg Leu		
290	295	300
Trp Thr Gln Ala Arg Gln Met Gly Trp Tyr Ala Ala Lys Cys Met Ala		
305	310	315
Ala Ala Ser Ser Gly Asp Ser Ile Asp Met Asp Phe Ser Phe Glu Leu		
325	330	335
Phe Ala His Val Thr Lys Phe Phe Asn Tyr Lys Val Val Leu Leu Gly		
340	345	350
Lys Tyr Asn Ala Gln Gly Leu Gly Ser Asp His Glu Leu Met Leu Arg		
355	360	365
Cys Thr Lys Gly Arg Glu Tyr Ile Lys Val Val Met Gln Asn Gly Arg		
370	375	380
Met Met Gly Ala Val Leu Ile Gly Glu Thr Asp Leu Glu Glu Thr Phe		
385	390	395
Glu Asn Leu Ile Leu Asn Gln Met Asn Leu Ser Ser Tyr Gly Glu Asp		
405	410	415
Leu Leu Asp Pro Asn Ile Asp Ile Glu Asp Tyr Phe Asp		
420	425	

<210> 3324

<211> 1130

<212> PRT

<213> Homo sapiens

<400> 3324

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Met Gly Lys Val Gly Ala Gly Gly Gly Ser Gln Ala Arg Leu Ser Ala
  1             5             10             15
Leu Leu Ala Gly Ala Gly Leu Leu Ile Leu Cys Ala Pro Gly Val Cys
             20             25             30
Gly Gly Gly Ser Cys Cys Pro Ser Pro His Pro Ser Ser Ala Pro Arg
             35             40             45

Ser Ala Ser Thr Pro Arg Gly Phe Ser His Gln Gly Arg Pro Gly Arg
  50             55             60
Ala Pro Ala Thr Pro Leu Pro Leu Val Val Arg Pro Leu Phe Ser Val
  65             70             75             80
Ala Pro Gly Asp Arg Ala Leu Ser Leu Glu Arg Ala Arg Gly Thr Gly
             85             90             95
Ala Ser Met Ala Val Ala Ala Arg Ser Gly Arg Arg Arg Arg Ser Gly
             100            105            110
Ala Asp Gln Glu Lys Ala Glu Arg Gly Glu Gly Ala Ser Arg Ser Pro
             115            120            125
Arg Gly Val Leu Arg Asp Gly Gly Gln Gln Glu Pro Gly Thr Arg Glu
             130            135            140
Arg Asp Pro Asp Lys Ala Thr Arg Phe Arg Met Glu Glu Leu Arg Leu
             145            150            155            160
Thr Ser Thr Thr Phe Ala Leu Thr Gly Asp Ser Ala His Asn Gln Ala
             165            170            175
Met Val His Trp Ser Gly His Asn Ser Ser Val Ile Leu Ile Leu Thr
             180            185            190
Lys Leu Tyr Asp Tyr Asn Leu Gly Ser Ile Thr Glu Ser Ser Leu Trp
             195            200            205
Arg Ser Thr Asp Tyr Gly Thr Thr Tyr Glu Lys Leu Asn Asp Lys Val
             210            215            220
Gly Leu Lys Thr Ile Leu Ser Tyr Leu Tyr Val Cys Pro Thr Asn Lys
             225            230            235            240
Arg Lys Ile Met Leu Leu Thr Asp Pro Glu Ile Glu Ser Ser Leu Leu

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	245	250	255
Ile Ser Ser Asp Glu Gly Ala Thr Tyr Gln Lys Tyr Arg Leu Asn Phe			
	260	265	270
Tyr Ile Gln Ser Leu Leu Phe His Pro Lys Gln Glu Asp Trp Ile Leu			
	275	280	285
Ala Tyr Ser Gln Asp Gln Lys Leu Tyr Ser Ser Ala Glu Phe Gly Arg			
	290	295	300
Arg Trp Gln Leu Ile Gln Glu Gly Val Val Pro Asn Arg Phe Tyr Trp			
305	310	315	320
Ser Val Met Gly Ser Asn Lys Glu Pro Asp Leu Val His Leu Glu Ala			
	325	330	335
Arg Thr Val Asp Gly His Ser His Tyr Leu Thr Cys Arg Met Gln Asn			
	340	345	350
Cys Thr Glu Ala Asn Arg Asn Gln Pro Phe Pro Gly Tyr Ile Asp Pro			
	355	360	365
Asp Ser Leu Ile Val Gln Asp His Tyr Val Phe Val Gln Leu Thr Ser			
	370	375	380
Gly Gly Arg Pro His Tyr Tyr Val Ser Tyr Arg Arg Asn Ala Phe Ala			
385	390	395	400
Gln Met Lys Leu Pro Lys Tyr Ala Leu Pro Lys Asp Met His Val Ile			
	405	410	415
Ser Thr Asp Glu Asn Gln Val Phe Ala Ala Val Gln Glu Trp Asn Gln			
	420	425	430
Asn Asp Thr Tyr Asn Leu Tyr Ile Ser Asp Thr Arg Gly Val Tyr Phe			
	435	440	445
Thr Leu Ala Leu Glu Asn Val Gln Ser Ser Arg Gly Pro Glu Gly Asn			
	450	455	460
Ile Met Ile Asp Leu Tyr Glu Val Ala Gly Ile Lys Gly Met Phe Leu			
465	470	475	480
Ala Asn Lys Lys Ile Asp Asn Gln Val Lys Thr Phe Ile Thr Tyr Asn			
	485	490	495
Lys Gly Arg Asp Trp Arg Leu Leu Gln Ala Pro Asp Thr Asp Leu Arg			
	500	505	510
Gly Asp Pro Val His Cys Leu Leu Pro Tyr Cys Ser Leu His Leu His			
	515	520	525
Leu Lys Val Ser Glu Asn Pro Tyr Thr Ser Gly Ile Ile Ala Ser Lys			

530	535	540	
Asp Thr Ala Pro Ser Ile Ile Val Ala Ser Gly Asn Ile Gly Ser Glu			
545	550	555	560
Leu Ser Asp Thr Asp Ile Ser Met Phe Val Ser Ser Asp Ala Gly Asn			
	565	570	575
Thr Trp Arg Gln Ile Phe Glu Glu Glu His Ser Val Leu Tyr Leu Asp			
	580	585	590
Gln Gly Gly Val Leu Val Ala Met Lys His Thr Ser Leu Pro Ile Arg			
595	600	605	
His Leu Trp Leu Ser Phe Asp Glu Gly Arg Ser Trp Ser Lys Tyr Ser			
610	615	620	
Phe Thr Ser Ile Pro Leu Phe Val Asp Gly Val Leu Gly Glu Pro Gly			
625	630	635	640
Glu Glu Thr Leu Ile Met Thr Val Phe Gly His Phe Ser His Arg Ser			
	645	650	655
Glu Trp Gln Leu Val Lys Val Asp Tyr Lys Ser Ile Phe Asp Arg Arg			
	660	665	670
Cys Ala Glu Glu Asp Tyr Arg Pro Trp Gln Leu His Ser Gln Gly Glu			
675	680	685	
Ala Cys Ile Met Gly Ala Lys Arg Ile Tyr Lys Lys Arg Lys Ser Glu			
690	695	700	
Arg Lys Cys Met Gln Gly Lys Tyr Ala Gly Ala Met Glu Ser Glu Pro			
705	710	715	720
Cys Val Cys Thr Glu Ala Asp Phe Asp Cys Asp Tyr Gly Tyr Glu Arg			
	725	730	735
His Ser Asn Gly Gln Cys Leu Pro Ala Phe Trp Phe Asn Pro Ser Ser			
	740	745	750
Leu Ser Lys Asp Cys Ser Leu Gly Gln Ser Tyr Leu Asn Ser Thr Gly			
	755	760	765
Tyr Arg Lys Val Val Ser Asn Asn Cys Thr Asp Gly Val Arg Glu Gln			
770	775	780	
Tyr Thr Ala Lys Pro Gln Lys Cys Pro Gly Lys Ala Pro Arg Gly Leu			
785	790	795	800
Arg Ile Val Thr Ala Asp Gly Lys Leu Thr Ala Glu Gln Gly His Asn			
	805	810	815
Val Thr Leu Met Val Gln Leu Glu Glu Gly Asp Val Gln Arg Thr Leu			

820	825	830
Ile Gln Val Asp Phe Gly Asp Gly Ile Ala Val Ser Tyr Val Asn Leu		
835	840	845
Ser Ser Met Glu Asp Gly Ile Lys His Val Tyr Gln Asn Val Gly Ile		
850	855	860
Phe Arg Val Thr Val Gln Val Asp Asn Ser Leu Gly Ser Asp Ser Ala		
865	870	875
Val Leu Tyr Leu His Val Thr Cys Pro Leu Glu His Val His Leu Ser		
885	890	895
Leu Pro Phe Val Thr Thr Lys Asn Lys Glu Val Asn Ala Thr Ala Val		
900	905	910
Leu Trp Pro Ser Gln Val Gly Thr Leu Thr Tyr Val Trp Trp Tyr Gly		
915	920	925
Asn Asn Thr Glu Pro Leu Ile Thr Leu Glu Gly Ser Ile Ser Phe Arg		
930	935	940
Phe Thr Ser Glu Gly Met Asn Thr Ile Thr Val Gln Val Ser Ala Gly		
945	950	955
Asn Ala Ile Leu Gln Asp Thr Lys Thr Ile Ala Val Tyr Glu Glu Phe		
965	970	975
Arg Ser Leu Arg Leu Ser Phe Ser Pro Asn Leu Asp Asp Tyr Asn Pro		
980	985	990
Asp Ile Pro Glu Trp Arg Arg Asp Ile Gly Arg Val Ile Lys Lys Ser		
995	1000	1005
Leu Val Glu Ala Thr Gly Val Pro Gly Gln His Ile Leu Val Ala Val		
1010	1015	1020
Leu Pro Gly Leu Pro Thr Thr Ala Glu Leu Phe Val Leu Pro Tyr Gln		
1025	1030	1035
Asp Pro Ala Gly Glu Asn Lys Arg Ser Thr Asp Asp Leu Glu Gln Ile		
1045	1050	1055
Ser Glu Leu Leu Ile His Thr Leu Asn Gln Asn Ser Val His Phe Glu		
1060	1065	1070
Leu Lys Pro Gly Val Arg Val Leu Val His Ala Ala His Leu Thr Ala		
1075	1080	1085
Ala Pro Leu Val Asp Leu Thr Pro Thr His Ser Gly Ser Ala Met Leu		
1090	1095	1100
Val Leu Leu Ser Val Val Phe Val Gly Leu Ala Val Phe Val Ile Tyr		

1105 1110 1115 1120
 Lys Phe Lys Arg Lys Tyr Phe His Ser Cys
 1125 1130

<210> 3325

<211> 196

<212> PRT

<213> Homo sapiens

<400> 3325

Met Met Ser Asp Gly Lys Leu Gly Arg Gln Ser Val Asp Ser Pro Cys
 1 5 10 15
 Ser Gly Thr Thr Cys Ser Leu Thr Ala Ala Gly Gly His Thr Thr Arg
 20 25 30
 Ile Ala Leu Leu Cys His Leu Val Ile Val Phe Phe Ala Leu Thr Glu
 35 40 45
 Asp Arg Lys Gly Gly Lys Ile Ser Phe Cys Ala His Thr Pro Leu Asn
 50 55 60
 Cys Met Phe Gly Phe Phe Cys Phe Val Lys Gly Cys Lys Thr Ser Ser
 65 70 75 80
 Ser Cys Ser Thr Ala Asn Thr Arg Gly Gln His Pro Ala Ser Cys Leu
 85 90 95
 Cys Phe Pro Ala Gly Arg Thr His Arg Gln Ser Gly Asn Leu Thr Phe
 100 105 110
 Pro Arg Ser Glu Asn Gly Leu Phe Ser Ser Glu Val Met Ile Arg Glu
 115 120 125
 Ser Leu Leu Ile Phe Val Ile His Thr Lys Thr Leu Thr Ser Gly Glu
 130 135 140
 Lys Leu Asp Thr Leu Asn Asn Glu Lys Ser Glu Gln Ala Phe Arg Gly
 145 150 155 160
 Cys Val Ser His Thr Glu Gly Ala Ser Pro Trp Ala His Ser Gln Asp
 165 170 175
 Pro Ser Phe Thr Asp His Arg Gly Cys Val Leu Gln Val Ala Asp Thr
 180 185 190
 Ala Leu Trp Phe

195

<210> 3326

<211> 144

<212> PRT

<213> Homo sapiens

<400> 3326

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Met Leu Ser Leu Glu Cys Thr Gln Leu Pro His His Ala Ser Cys Thr
  1             5             10             15
Cys Cys Ser Thr Ala Pro Pro Ser Val Ser Ala Ala Arg Pro Ser Pro
      20             25             30
Cys Ser Ile Val Val Ser Phe Asp Cys Ala Gly Trp Arg Val Pro Cys
      35             40             45
Pro Pro Ser Leu Val Phe Gln Asn Ser Phe Gly Trp Phe Cys Thr Cys
      50             55             60
Val Phe His Met Val Phe Thr Ser Ile Val Arg Lys Thr Lys His Phe
      65             70             75             80
Ser Lys Ser His Leu Glu Ser Phe Asn Pro Phe Met Ser Val Ser Ala
      85             90             95
Lys Phe Ser Cys Gly Leu Ala Gly Leu Leu Cys Ser Val Pro Glu Arg
      100            105            110
Ala Gly Leu Ser Leu Gly Ile Cys Arg His Pro Leu Trp His Ser Ala
      115            120            125
Gly Thr Leu Ser Ser Asn Leu Leu Ala Pro Ser Ala Arg Trp Asp His
      130            135            140

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<210> 3327

<211> 184

<212> PRT

<213> Homo sapiens

<400> 3327

Met Tyr Phe Tyr Asp Gly Val Ser Arg Asp Ala Ala Ser Ala Ala Leu
 1 5 10 15
 Ala Asp Ala Ala Glu Glu Leu Leu Asp Arg Leu Ala Ser His Ser Met
 20 25 30
 Leu Pro Ser Asp Val Ser Ile Leu Tyr His Met Lys Thr Leu Leu Leu
 35 40 45
 Leu Gln Asp Thr Glu Arg Leu Lys His Ala Leu Glu Met Phe Pro Glu
 50 55 60
 His Cys Thr Met Pro Pro Gly Gly Lys Ser Glu Ala Gln Arg Ala Trp
 65 70 75 80
 Ala Asn Gly Thr Gly His Thr Ala His Gln Trp Leu His Val Ser Ser
 85 90 95
 Asp Leu Gly Leu Leu Leu Ser Val Phe Pro Ile Ser Met Thr Leu Thr
 100 105 110
 Asp Ala Gly Val Gln Gly Tyr Val His Pro Arg Pro Ala Gly Ala Gln
 115 120 125
 Ser Thr Glu Ala Trp Pro Ser Glu Glu Thr Glu Gly Ser Val Gly His
 130 135 140
 His Asp Glu Ser Leu Val Ser Thr Arg Pro Ser Cys Ala Phe Leu Leu
 145 150 155 160
 His Gly Thr Ala Arg Val Gly Val Pro Glu Gly Pro Ser Trp Pro Trp
 165 170 175
 Lys Val Pro Tyr Ser Arg Gln Glu
 180

<210> 3328

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3328

Met Gly Ser Val Phe Leu Gly Lys Ser Gly Leu Leu Cys Lys Ala Pro
 1 5 10 15
 Ala Leu Pro Asp Ser Ser Pro Asn Thr Arg Ala Lys Val Gly Val Leu

20 25 30
 Phe Leu Pro Leu Leu Pro Pro Asn Asp Leu Glu Gly Ile Cys Val Pro
 35 40 45
 Ala Val Pro Phe Pro Ala Thr Phe Ala Pro Gly Asn Ser Pro Pro His
 50 55 60
 Thr Ser Pro His Leu Ile Gly Asn Phe Pro Leu Pro Asp Leu Arg Ser
 65 70 75 80
 Ile Ser Thr Pro Ser Leu Gln Asn Gly Asp Asn Glu Leu Thr Lys Ser
 85 90 95
 Met Phe Asn Thr Leu Leu Thr Glu Leu Thr Met Ile Leu Gly Gly Ser
 100 105 110
 Gly Met

<210> 3329

<211> 326

<212> PRT

<213> Homo sapiens

<400> 3329

Met Lys Cys Thr Ala Val Leu Cys Cys Arg Met Ala Pro Leu Gln Lys
 1 5 10 15
 Ala Gln Ile Val Arg Met Val Lys Asn Leu Lys Gly Ser Pro Ile Thr
 20 25 30
 Leu Ser Ile Gly Asp Gly Ala Asn Asp Val Ser Met Ile Leu Glu Ser
 35 40 45
 His Val Gly Ile Gly Ile Lys Gly Lys Glu Gly Arg Gln Ala Ala Arg
 50 55 60
 Asn Ser Asp Tyr Ser Val Pro Lys Phe Lys His Leu Lys Lys Leu Leu
 65 70 75 80
 Leu Ala His Gly His Leu Tyr Tyr Val Arg Ile Ala His Leu Val Gln
 85 90 95
 Tyr Phe Phe Tyr Lys Asn Leu Cys Phe Ile Leu Pro Gln Phe Leu Tyr
 100 105 110
 Gln Phe Phe Cys Gly Phe Ser Gln Gln Pro Leu Tyr Asp Ala Ala Tyr

115	120	125
Leu Thr Met Tyr Asn Ile Cys Phe Thr Ser Leu Pro Ile Leu Ala Tyr		
130	135	140
Ser Leu Leu Glu Gln His Ile Asn Ile Asp Thr Leu Thr Ser Asp Pro		
145	150	155
Arg Leu Tyr Met Lys Ile Ser Gly Asn Ala Met Leu Gln Leu Gly Pro		
165	170	175
Phe Leu Tyr Trp Thr Phe Leu Ala Ala Phe Glu Gly Thr Val Phe Phe		
180	185	190
Phe Gly Thr Tyr Phe Leu Phe Gln Thr Ala Ser Leu Glu Glu Asn Gly		
195	200	205
Lys Val Tyr Gly Asn Trp Thr Phe Gly Thr Ile Val Phe Thr Val Leu		
210	215	220
Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr Arg Phe Trp Thr		
225	230	235
Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Ala Phe Tyr Val Phe		
245	250	255
Phe Ser Phe Phe Trp Gly Gly Ile Ile Trp Pro Phe Leu Lys Gln Gln		
260	265	270
Arg Met Tyr Phe Val Phe Ala Gln Met Leu Ser Ser Val Ser Thr Trp		
275	280	285
Leu Ala Ile Ile Leu Leu Ile Phe Ile Ser Leu Phe Pro Glu Ile Leu		
290	295	300
Leu Ile Val Leu Lys Asn Val Arg Arg Arg Ser Ala Arg Val His His		
305	310	315
Leu Ile Ser Ser Ser Ala		
325		

<210> 3330

<211> 913

<212> PRT

<213> Homo sapiens

<400> 3330

Met Pro Gly Glu Ala Val Glu Tyr His Ser Ile Gln Leu Ile Arg Asp

1	5	10	15
Glu Phe Leu Met Asn Val Gln Lys Phe Ala Ser Asn Ile Gln Arg Thr			
20	25	30	
Met Gln Gln Leu Glu Gly Glu Ile Lys Leu Glu Met Pro Ile Ile Ser			
35	40	45	
Val Glu Gly Glu Val Ser Asp Leu Ala Ala Asp Pro Glu Thr Val Asp			
50	55	60	
Ile Leu Glu Gln Cys Val Ile Asn Trp Leu Asn Gln Ile Ser Thr Ala			
65	70	75	80
Val Glu Ala Gln Leu Lys Lys Thr Pro Gln Gly Lys Gly Pro Leu Ala			
85	90	95	
Glu Ile Glu Phe Trp Arg Glu Arg Asn Ala Thr Leu Ser Ala Leu His			
100	105	110	
Glu Gln Thr Lys Leu Pro Ile Val Arg Lys Val Leu Asp Val Ile Lys			
115	120	125	
Glu Ser Asp Ser Met Leu Val Ala Asn Leu Gln Pro Val Phe Thr Glu			
130	135	140	
Leu Phe Lys Phe His Thr Glu Ala Ser Asp Asn Val Arg Phe Leu Ser			
145	150	155	160
Thr Val Glu Arg Tyr Phe Lys Asn Ile Thr His Gly Ser Gly Phe His			
165	170	175	
Val Val Leu Asp Thr Ile Pro Ala Met Met Ser Ala Leu Arg Met Val			
180	185	190	
Trp Ile Ile Ser Arg His Tyr Asn Lys Asp Glu Arg Met Ile Pro Leu			
195	200	205	
Met Glu Arg Ile Ala Trp Glu Ile Ala Glu Arg Val Cys Arg Val Val			
210	215	220	
Asn Leu Arg Thr Leu Phe Lys Glu Asn Arg Ala Ser Ala Gln Ser Lys			
225	230	235	240
Thr Leu Glu Ala Arg Asn Thr Leu Arg Leu Trp Lys Lys Ala Tyr Phe			
245	250	255	
Asp Thr Arg Ala Lys Ile Glu Ala Ser Gly Arg Glu Asp Arg Trp Glu			
260	265	270	
Phe Asp Arg Lys Arg Leu Phe Glu Arg Thr Asp Tyr Met Ala Thr Ile			
275	280	285	
Cys Gln Asp Leu Ser Asp Val Leu Gln Val Leu Glu Glu Phe Tyr Asn			

290	295	300	
Ile Phe Gly Pro Glu Leu Lys Ala Val Thr Gly Asp Pro Lys Arg Ile			
305	310	315	320
Asp Asp Val Leu Cys Arg Val Asp Gly Leu Val Thr Pro Met Glu Asn			
	325	330	335
Leu Thr Phe Asp Pro Phe Ser Ile Lys Ser Ser Gln Phe Trp Lys Tyr			
	340	345	350
Val Met Asp Glu Phe Lys Ile Glu Val Leu Ile Asp Ile Ile Asn Lys			
	355	360	365
Ile Phe Val Gln Asn Leu Glu Asn Pro Pro Leu Tyr Lys Asn His Pro			
370	375	380	
Pro Val Ala Gly Ala Ile Tyr Trp Glu Arg Ser Leu Phe Phe Arg Ile			
385	390	395	400
Lys His Thr Ile Leu Arg Phe Gln Glu Val Gln Glu Ile Leu Asp Ser			
	405	410	415
Asp Arg Gly Gln Glu Val Lys Gln Lys Tyr Leu Glu Val Gly Arg Thr			
	420	425	430
Met Lys Glu Tyr Glu Asp Arg Lys Tyr Glu Gln Trp Met Glu Val Thr			
	435	440	445
Glu Gln Val Leu Pro Ala Leu Met Lys Lys Ser Leu Leu Thr Lys Ser			
	450	455	460
Ser Ile Ala Thr Glu Glu Pro Ser Thr Leu Glu Arg Gly Ala Val Phe			
465	470	475	480
Ala Ile Asn Phe Ser Pro Ala Leu Arg Glu Ile Ile Asn Glu Thr Lys			
	485	490	495
Tyr Leu Glu Gln Leu Gly Phe Thr Val Pro Glu Leu Ala Arg Asn Val			
	500	505	510
Ala Leu Gln Glu Asp Lys Phe Leu Arg Tyr Thr Ala Gly Ile Gln Arg			
	515	520	525
Met Leu Asp His Tyr His Met Leu Ile Gly Thr Leu Asn Asp Ala Glu			
	530	535	540
Ser Val Leu Leu Lys Asp His Ser Gln Glu Leu Leu Arg Val Phe Arg			
545	550	555	560
Ser Gly Tyr Lys Arg Leu Asn Trp Asn Ser Leu Gly Ile Gly Asp Tyr			
	565	570	575
Ile Thr Gly Cys Lys Gln Ala Ile Gly Lys Phe Glu Ser Leu Val His			

580	585	590
Gln Ile His Lys Asn Ala Asp Asp Ile Ser Ser Arg Leu Thr Leu Ile		
595	600	605
Glu Ala Ile Asn Leu Phe Lys Tyr Pro Ala Ala Lys Ser Glu Glu Glu		
610	615	620
Leu Pro Gly Val Lys Glu Phe Phe Glu His Ile Glu Arg Glu Arg Ala		
625	630	635
Ser Asp Val Asp His Met Val Arg Trp Tyr Leu Ala Ile Gly Pro Leu		
645	650	655
Leu Thr Lys Val Glu Gly Leu Val Val His Thr Asn Thr Gly Lys Ala		
660	665	670
Pro Lys Leu Ala Ser Tyr Tyr Lys Tyr Trp Glu Lys Lys Ile Tyr Glu		
675	680	685
Val Leu Thr Lys Leu Ile Leu Lys Asn Leu Gln Ser Phe Asn Ser Leu		
690	695	700
Ile Leu Gly Asn Val Pro Leu Phe His Thr Glu Thr Ile Leu Thr Ala		
705	710	715
Pro Glu Ile Ile Leu His Pro Asn Thr Asn Glu Ile Asp Lys Met Cys		
725	730	735
Phe His Cys Val Arg Asn Cys Val Glu Ile Thr Lys His Phe Val Arg		
740	745	750
Trp Met Asn Gly Ser Cys Ile Glu Cys Pro Pro Gln Lys Gly Glu Glu		
755	760	765
Glu Glu Val Val Ile Ile Asn Phe Tyr Asn Asp Ile Ser Leu Asn Pro		
770	775	780
Gln Ile Ile Glu Gln Ala Val Met Ile Pro Gln Asn Val His Arg Ile		
785	790	795
Leu Ile Asn Leu Met Lys Tyr Leu Gln Lys Trp Lys Arg Tyr Arg Pro		
805	810	815
Leu Trp Lys Leu Asp Lys Ala Ile Val Met Glu Lys Phe Ala Ala Lys		
820	825	830
Lys Pro Pro Cys Val Ala Tyr Asp Glu Lys Leu Gln Phe Tyr Ser Lys		
835	840	845
Ile Ala Tyr Glu Val Met Arg His Pro Leu Ile Lys Asp Glu His Cys		
850	855	860
Ile Arg Leu Gln Leu Arg His Leu Ala Asn Thr Val Gln Glu Asn Ala		

865 870 875 880
 Lys Ser Trp Val Ile Ser Leu Gly Lys Leu Leu Asn Glu Ser Ala Lys
 885 890 895
 Glu Glu Leu Tyr Asn Leu His Glu Glu Met Glu Val Leu Asn Arg Cys
 900 905 910
 Val

<210> 3331

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3331

Met Leu Leu Pro Phe Ile Arg Thr Leu Pro Leu Leu Cys Tyr Asn His
 1 5 10 15
 Leu Leu Val Ser Pro Asp Ser Ala Thr Leu Ser Pro Pro Tyr Ser Leu
 20 25 30
 Glu Lys Met Thr Asp Leu Val Ala Val Trp Asp Val Ala Leu Ser Asp
 35 40 45
 Gly Val His Lys Ile Glu Phe Glu His Gly Thr Thr Ser Gly Lys Arg
 50 55 60
 Val Val Tyr Val Asp Gly Lys Glu Glu Ile Arg Lys Glu Trp Met Phe
 65 70 75 80
 Lys Leu Val Gly Lys Glu Thr Phe Tyr Val Gly Ala Ala Lys Thr Lys
 85 90 95
 Ala Thr Ile Asn Ile Asp Ala Ile Ser Gly Phe Ala Tyr Glu Tyr Thr
 100 105 110
 Leu Glu Ile Asn Gly Lys Ser Leu Lys Lys Tyr Met Glu Asp Arg Ser
 115 120 125
 Lys Thr Thr Asn Thr Trp Val Leu His Met Asp Gly Glu Asn Phe Arg
 130 135 140
 Ile Val Leu Glu Lys Asp Ala Met Asp Val Trp Cys Asn Gly Lys Lys
 145 150 155 160
 Leu Glu Thr Ala Val Ser

165

<210> 3332

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3332

Met Leu Trp Tyr Glu Leu Pro Gly Tyr Leu Arg Leu Pro Cys Lys Gln
 1 5 10 15
 Leu Trp Pro Asp Trp Val Pro Gly Arg Gly Gln Gln Thr Lys Glu Cys
 20 25 30
 Ser Val Gly Pro Ala Ser Ser Asp Leu Gln Asp His Pro Ala Glu Ile
 35 40 45
 Arg Pro Asn Ser Ser Arg Arg Ala Lys Val Ser Tyr Gly Arg Gln Leu
 50 55 60
 Ser Leu Glu Lys Trp Pro Ser Leu Ala Thr Leu Tyr Tyr Arg Cys Ser
 65 70 75 80
 Cys Thr Lys Pro Ser Gly His His Met Ser Trp Leu Ala Ala Leu Ser
 85 90 95
 Leu Cys Leu Ser Ser Gly Gly Cys Ile Ser Glu Arg Cys Arg Ser Ala
 100 105 110
 Ile Thr Gln Cys Ser Gln Pro Arg Met Glu Asp Leu Tyr Phe Trp Pro
 115 120 125
 Ser

<210> 3333

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3333

Met Pro Cys Thr Pro Pro Pro Pro Pro Pro Pro His Ile Arg Leu Ala

1 5 10 15
 Ala Gly Ser Leu Glu Ala Ala Arg Leu Thr Pro Pro Arg Gly Pro Gly
 20 25 30
 Pro Met Ala Gly Ile Arg Ser Arg Pro Pro Ala Cys Thr Ser Glu Gln
 35 40 45
 Arg Gln Ala Gln Leu Ala Ala Thr His Pro Pro Leu Ala Ala Gly Arg
 50 55 60
 Pro Cys Ser Val Ser Trp Ser Phe Pro Arg Pro Cys Gly Pro Leu Thr
 65 70 75 80
 Ala Pro Leu Leu Cys Leu His Arg Ser Leu Arg Ala Leu Leu Leu Ala
 85 90 95
 Ser Ala Pro His Thr Ser Ala Ala Ala Trp Cys Arg Thr Leu Gly Arg
 100 105 110
 Tyr Pro Pro Pro
 115

<210> 3334

<211> 168

<212> PRT

<213> Homo sapiens

<400> 3334

Met Ala Asn Arg Asp Ser Ala Ser Pro His Ser Pro Pro Arg Arg Arg
 1 5 10 15
 Arg Cys Leu Gly Gly Pro Thr Val Leu Pro Leu Arg Lys Ile His Ala
 20 25 30
 Gly Cys Tyr Gly Pro Gln Pro Pro His Arg His Pro Arg Pro Leu His
 35 40 45
 Thr Val Ser Leu Pro Ser Pro Asn Thr Leu Leu Pro Gln Pro Gly Asp
 50 55 60
 Pro Trp Met Glu Asp Trp Ala Ser Gln Ser Gly Arg Gln Asp Gln Arg
 65 70 75 80
 Val Cys Glu His Thr Cys Val Pro Ala Asp Met Pro Gln Asp Pro Arg
 85 90 95
 Asp Ala Pro Ala Pro Val Thr Trp Cys Gln Ser Tyr Leu Gly Asn Trp

100 105 110
 Pro Phe Trp Phe Arg Val Asn Trp Glu Val Lys Pro Leu Gly Phe Val
 115 120 125
 Glu Lys Arg Thr Val Arg Glu Met Leu Cys His Leu Val Arg Lys Thr
 130 135 140
 Phe Phe Leu Ser Ser Lys Ile Met Met Gly Phe Phe Trp Ile Cys Phe
 145 150 155 160
 Thr Asn Lys Ser Asp Trp Ser Ile
 165

<210> 3335

<211> 343

<212> PRT

<213> Homo sapiens

<400> 3335

Met Val Thr Gly Arg Arg Glu Asp Val Ala Thr Ala Arg Arg Glu Ile
 1 5 10 15
 Ile Ser Ala Ala Glu His Phe Ser Met Ile Arg Ala Ser Arg Asn Lys
 20 25 30
 Ser Gly Ala Ala Phe Gly Val Ala Pro Ala Leu Pro Gly Gln Val Thr
 35 40 45
 Ile Arg Val Arg Val Pro Tyr Arg Val Val Gly Leu Val Val Gly Pro
 50 55 60
 Lys Gly Ala Thr Ile Lys Arg Ile Gln Gln Gln Thr Asn Thr Tyr Ile
 65 70 75 80
 Ile Thr Pro Ser Arg Asp Arg Asp Pro Val Phe Glu Ile Thr Gly Ala
 85 90 95
 Pro Gly Asn Val Glu Arg Ala Arg Glu Glu Ile Glu Thr His Ile Ala
 100 105 110
 Val Arg Thr Gly Lys Ile Leu Glu Tyr Asn Asn Glu Asn Asp Phe Leu
 115 120 125
 Ala Gly Ser Pro Asp Ala Ala Ile Asp Ser Arg Tyr Ser Asp Ala Trp
 130 135 140
 Arg Val His Gln Pro Gly Cys Lys Pro Leu Ser Thr Phe Arg Gln Asn

145 150 155 160
 Ser Leu Gly Cys Ile Gly Glu Cys Gly Val Asp Ser Gly Phe Glu Ala
 165 170 175
 Pro Arg Leu Gly Glu Gln Gly Gly Asp Phe Gly Tyr Gly Gly Tyr Leu
 180 185 190
 Phe Pro Gly Tyr Gly Val Gly Lys Gln Asp Val Tyr Tyr Gly Val Ala
 195 200 205
 Glu Thr Ser Pro Pro Leu Trp Ala Gly Gln Glu Asn Ala Thr Pro Thr
 210 215 220
 Ser Val Leu Phe Ser Ser Ala Ser Ser Ser Ser Ser Ser Ser Ala Lys
 225 230 235 240
 Ala Arg Ala Gly Pro Pro Gly Ala His Arg Ser Pro Ala Thr Ser Ala
 245 250 255
 Gly Pro Glu Leu Ala Gly Leu Pro Arg Arg Pro Pro Gly Glu Pro Leu
 260 265 270
 Gln Gly Phe Ser Lys Leu Gly Gly Gly Gly Leu Arg Ser Pro Gly Gly
 275 280 285
 Gly Arg Asp Cys Met Val Cys Phe Glu Ser Glu Val Thr Ala Ala Leu
 290 295 300
 Val Pro Cys Gly His Asn Leu Phe Cys Met Glu Cys Ala Val Arg Ile
 305 310 315 320
 Cys Glu Arg Thr Asp Pro Glu Cys Pro Val Cys His Ile Thr Ala Thr
 325 330 335
 Gln Ala Ile Arg Ile Phe Ser
 340

<210> 3336

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3336

Met Asp Ala Ala Val Thr Asp Asp Phe Gln Gln Ile Leu Pro Ile Glu
 1 5 10 15
 Gln Leu Arg Ser Thr His Ala Ser Asn Asp Tyr Val Glu Arg Pro Pro

	20		25		30										
Ala	Pro	Cys	Lys	Gln	Ala	Leu	Ser	Ser	Pro	Ser	Leu	Ile	Val	Gln	Thr
	35		40		45										
His	Lys	Ser	Asp	Trp	Ser	Leu	Ala	Thr	Met	Pro	Thr	Ser	Leu	Pro	Arg
	50		55		60										
Ser	Leu	Ser	Gln	Cys	His	Gln	Leu	Gln	Pro	Leu	Pro	Gln	His	Leu	Ser
	65		70		75										80
Gln	Ser	Ser	Ile	Ala	Ser	Ser	Met	Ser	His	Ser	Thr	Thr	Ala	Ser	Ser
			85						90					95	
Thr	Thr	Ala	Pro	Leu	Met	Met	Lys	Thr	Thr	Val	Leu	Met	Ser	Pro	Ala
		100						105						110	
Leu	Val	Gly	Leu	Val	Leu	Ala	Leu	Ser	Ala	Gly	Gln	Pro			
	115						120					125			

<210> 3337

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3337

Met	Cys	Val	Tyr	Thr	Tyr	Ile	Cys	Glu	Tyr	Arg	Cys	Ile	Tyr	Val	Cys
1			5						10					15	
Ile	Tyr	Ile	His	Val	Phe	Val	Tyr	Val	Cys	Tyr	Ile	Tyr	Leu	Tyr	Val
			20						25					30	
Tyr	Val	Cys	Val	Ile	Tyr	Ile	His	Val	Cys	Val	Cys	Val	Cys	Val	Leu
		35							40				45		
Tyr	Ile	His	Val	Cys	Val	Tyr	Val	Cys	Val	Tyr	Ala	Leu	Arg	Arg	Gln
	50					55							60		
Asn	Cys	Pro	Glu	Glu	Gly	Trp	Tyr	Leu	Gly	Phe	Pro	Ser	Pro	Ser	Leu
	65				70					75					80
Cys	His	Leu	Val	Pro	Asn	Arg	Ala	Asn	Gly	Pro	Ser	Leu	Gln	Thr	Glu
			85							90				95	
Ala	Glu	Ser	Pro	Gly	Leu	Gly	Arg	Gly	Asp	Arg	Gly	Thr	Gly	Gln	Pro
			100						105					110	
Gln	Trp	Gly	Thr	Gly	Asp	Pro	Gly	Leu	His	Pro	Asn	Thr	Gly	Thr	Arg

115 120 125
 Asp Arg Cys His Glu Leu Leu Leu Leu Glu Pro Ser Ala Gln Gly Ser
 130 135 140
 Gly Leu Tyr Pro
 145

<210> 3338

<211> 172

<212> PRT

<213> Homo sapiens

<400> 3338

Met Asn Ala Val Gly Cys Cys Gly Leu Gln Leu Tyr Lys Phe Gly Glu
 1 5 10 15
 Thr Val Ser Ile Val Phe Trp Thr Asp Thr Trp Arg Pro Glu Ser Phe
 20 25 30
 Phe Asp Lys Val Lys Lys Asn Arg Gln Asn Gly Met His Thr Leu Cys
 35 40 45
 Leu Leu Asp Ile Lys Val Lys Glu Gln Ser Leu Glu Asn Leu Ile Lys
 50 55 60
 Gly Arg Lys Ile Tyr Glu Pro Pro Arg Tyr Met Ser Val Asn Gln Ala
 65 70 75 80
 Ala Gln Gln Leu Leu Glu Ile Val Gln Asn Gln Arg Ile Arg Gly Glu
 85 90 95
 Glu Pro Ala Val Thr Glu Glu Thr Leu Cys Val Gly Leu Ala Arg Val
 100 105 110
 Gly Ala Asp Asp Gln Lys Ile Ala Ala Gly Thr Leu Arg Gln Met Cys
 115 120 125
 Thr Val Asp Leu Gly Glu Pro Leu His Ser Leu Ile Ile Thr Gly Gly
 130 135 140
 Ser Ile His Pro Met Glu Met Glu Met Leu Ser Leu Phe Ser Ile Pro
 145 150 155 160
 Glu Asn Ser Ser Glu Ser Gln Ser Ile Asn Gly Leu
 165 170

<210> 3339

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3339

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Met His Leu Thr Ser Pro Pro Val Leu Arg Thr Pro Cys Cys Ser Gly
  1              5              10              15
His Arg Val Ser Gln Gln Trp His Ile Asp Thr Trp Ala Arg Glu Phe
      20              25              30
Phe Ala Ala Gly Gly Gly Gly Gly Pro Val Cys Cys Arg Leu Leu Cys
      35              40              45
Gly Ser Phe Ser Leu Cys Pro Leu Ile Glu Ala Pro Leu Pro Trp Leu
      50              55              60
Gln Pro Lys Met Ser Pro Asp Ile Ala Lys Cys Pro Gly Ala Gly Ala
      65              70              75              80
Arg Gly Thr Met Ser Pro Leu Thr His Leu Glu Asn His Cys Tyr Lys
      85              90              95
Arg Thr Gly Thr Ala Lys Glu Ala Ile Ile Ser Arg Lys Ser Cys Cys
      100             105             110
Arg Phe Ser Leu Asn Lys Gly Val Ser Ile Leu Arg Asn Pro Pro Lys
      115             120             125
Asp Cys Trp Pro Ser Leu Ser
      130             135

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<210> 3340

<211> 477

<212> PRT

<213> Homo sapiens

<400> 3340

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Met Phe Ser Ile Thr Leu Ile Asn His Phe Asp Leu Ser Ile Leu Ile
  1              5              10              15
Thr Thr Met Val Leu Val Pro Ser Tyr Thr Leu Leu Gly Phe Lys Thr

```

	20		25		30										
Phe	Leu	Glu	Val	Arg	Asp	Gln	Glu	His	Tyr	Arg	Glu	Phe	Pro	Glu	Ala
	35					40						45			
Asn	Phe	Glu	Leu	Ser	Ala	Thr	Asp	Phe	Leu	Val	Cys	Phe	Ile	Pro	Tyr
	50					55						60			
Phe	Gln	Thr	Leu	Leu	Phe	Val	Phe	Val	Leu	Arg	Cys	Met	Glu	Leu	Lys
65					70					75					80
Cys	Gly	Lys	Lys	Arg	Met	Arg	Lys	Asp	Pro	Val	Phe	Arg	Ile	Ser	Pro
				85						90				95	
Gln	Ser	Arg	Asp	Ala	Lys	Pro	Asn	Pro	Glu	Glu	Pro	Ile	Asp	Glu	Asp
				100					105					110	
Glu	Asp	Ile	Gln	Thr	Glu	Arg	Ile	Arg	Thr	Ala	Thr	Ala	Leu	Thr	Thr
				115					120					125	
Ser	Ile	Leu	Asp	Glu	Lys	Pro	Val	Ile	Ile	Ala	Ser	Cys	Leu	His	Lys
	130						135						140		
Glu	Tyr	Ala	Gly	Gln	Lys	Lys	Ser	Cys	Phe	Ser	Lys	Arg	Lys	Lys	Lys
145					150					155					160
Ile	Ala	Ala	Arg	Asn	Ile	Ser	Phe	Cys	Val	Gln	Glu	Gly	Glu	Ile	Leu
				165						170				175	
Gly	Leu	Leu	Gly	Pro	Asn	Gly	Ala	Gly	Lys	Ser	Ser	Ser	Ile	Arg	Met
				180					185					190	
Ile	Ser	Gly	Ile	Thr	Lys	Pro	Thr	Ala	Gly	Glu	Val	Glu	Leu	Lys	Gly
	195							200						205	
Cys	Ser	Ser	Val	Leu	Gly	His	Leu	Gly	Tyr	Cys	Pro	Gln	Glu	Asn	Val
	210						215						220		
Leu	Trp	Pro	Met	Leu	Thr	Leu	Arg	Glu	His	Leu	Glu	Val	Tyr	Ala	Ala
225					230					235					240
Val	Lys	Gly	Leu	Arg	Lys	Ala	Asp	Ala	Arg	Leu	Ala	Ile	Ala	Arg	Leu
				245						250				255	
Val	Ser	Ala	Phe	Lys	Leu	His	Glu	Gln	Leu	Asn	Val	Pro	Val	Gln	Lys
	260								265					270	
Leu	Thr	Ala	Gly	Ile	Thr	Arg	Lys	Leu	Cys	Phe	Val	Leu	Ser	Leu	Leu
	275							280						285	
Gly	Asn	Ser	Pro	Val	Leu	Leu	Leu	Asp	Glu	Pro	Ser	Thr	Gly	Ile	Asp
	290						295						300		
Pro	Thr	Gly	Gln	Gln	Gln	Met	Trp	Gln	Ala	Ile	Gln	Ala	Val	Val	Lys

305 310 315 320
 Asn Thr Glu Arg Gly Val Leu Leu Thr Thr His Asn Leu Ala Glu Ala
 325 330 335
 Glu Ala Leu Cys Asp Arg Val Ala Ile Met Val Ser Gly Arg Leu Arg
 340 345 350
 Cys Ile Gly Ser Ile Gln His Leu Lys Asn Lys Leu Gly Lys Asp Tyr
 355 360 365
 Ile Leu Glu Leu Lys Val Lys Glu Thr Ser Gln Val Thr Leu Val His
 370 375 380
 Thr Glu Ile Leu Lys Leu Phe Pro Gln Ala Ala Gly Gln Glu Arg Tyr
 385 390 395 400
 Ser Ser Leu Leu Thr Tyr Lys Leu Pro Val Ala Asp Val Tyr Pro Leu
 405 410 415
 Ser Gln Thr Phe His Lys Leu Glu Ala Val Lys His Asn Phe Asn Leu
 420 425 430
 Gly Glu Tyr Ser Leu Ser Gln Cys Thr Leu Glu Lys Val Phe Leu Glu
 435 440 445
 Leu Ser Lys Glu Gln Glu Val Gly Asn Phe Asp Glu Glu Ile Asp Thr
 450 455 460
 Thr Met Arg Trp Lys Leu Leu Pro His Ser Asp Glu Pro
 465 470 475

<210> 3341

<211> 181

<212> PRT

<213> Homo sapiens

<400> 3341

Met Gly Asn Pro Ile Leu Gln Gln His Tyr Ile Arg Glu Ala Thr Met
 1 5 10 15
 Glu Gln Gly Thr Arg Pro Lys Lys Pro Pro Cys Ala Tyr Ser Thr Val
 20 25 30
 His Arg Val Pro Ser Ala Pro Glu Gly Pro Cys Pro Pro Thr Ser Thr
 35 40 45
 Ala Pro Ser Ser Gly Pro Pro Arg Ala Leu Gly Arg Phe Leu Cys Gln

50 55 60
 Thr Ser Pro Ala Thr His Ser Ser Gly Ser Arg Ala Pro Pro Pro Gln
 65 70 75 80
 Gln Gln Ser Ser Arg Asp Leu Pro Gln Gly Arg Ser Pro Ala Pro Gly
 85 90 95
 Trp Lys Ala Ala Glu Leu Trp Arg Arg Gly Thr Gln Arg Thr Ala Gly
 100 105 110
 Arg Ala Cys Pro Arg Leu Pro Ala Arg Pro Glu Gly Ser Ala Arg Ser
 115 120 125
 Lys Asn Gln Lys Ser Ser Met Arg Ser Pro Ala Gly Arg Arg Gly Val
 130 135 140
 Ala Gln Pro Val Leu Ile Leu Ser Trp Arg Lys Pro Ser Gly Arg Val
 145 150 155 160
 Leu Gly Arg Thr Arg Leu Pro Pro Arg Leu Leu Ser Ala Ala Cys Pro
 165 170 175
 Ala Arg Thr Ser Val
 180

<210> 3342

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3342

Met Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
 1 5 10 15
 Ser Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met
 20 25 30
 Ser His Cys Ala Trp Thr Ile Phe Thr Phe Phe Phe Glu Thr Glu Ser
 35 40 45
 Cys Ser Val Thr Gln Thr Glu Val Gln Trp Arg Arg Leu Gly Ser Leu
 50 55 60
 Gln Ala Pro Leu Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu Pro
 65 70 75 80
 Asn Ser Trp Asp Tyr Arg Arg Pro Pro Pro Phe Leu Ala Asn Phe Phe

	85	90	95
Val Phe Leu Val Ala Met Gly Phe His His Val Ser Gln Asp Gly Leu			
100	105	110	
Asp Ile Leu Thr Ser			
115			

<210> 3343

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3343

Met Cys His His Ala Trp Leu Ile Phe Ile Phe Leu Val Glu Thr Gly			
1	5	10	15
Phe His His Val Val Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp			
20	25	30	
Leu Pro Thr Ser Ala Ser Gln Gly Ala Gly Ile Thr Gly Met Ser His			
35	40	45	
His Ala Trp Pro Phe Leu Thr Leu Leu Tyr Asp Met Pro Ile Ala Ser			
50	55	60	
Leu Arg Ala Ser Val Pro Cys Tyr Phe Thr Leu Gly Phe Arg Trp Arg			
65	70	75	80
Glu Gln Leu Leu Phe Gly Thr Leu Ala Ile Ala Trp Gln Met Gly Ile			
85	90	95	
Cys His Phe Cys Ser Tyr Leu Val Gly Ser Thr Ile Thr Phe Arg Ala			
100	105	110	
Asn Pro Ala Ala Lys Pro Gly Ile Asn Arg Ala Glu Lys Tyr Ile Leu			
115	120	125	

<210> 3344

<211> 752

<212> PRT

<213> Homo sapiens

<400> 3344

Met Glu Thr Val Val Ala Gly Gly Ser Gly Gly Asp Gly Glu Glu Glu
 1 . 5 10 15
 Glu Glu Ala Leu Pro Glu Gln Ser Glu Gly Lys Glu Gln Lys Ile Leu
 20 25 30
 Leu Asp Thr Ala Cys Lys Met Val Arg Trp Leu Ser Ala Lys Leu Gly
 35 40 45
 Pro Thr Val Ala Ser Arg His Val Ala Arg Asn Leu Leu Arg Leu Leu
 50 . 55 60
 Thr Ser Cys Tyr Val Gly Pro Thr Arg Gln Gln Phe Thr Val Ser Ser
 65 70 75 80
 Gly Glu Ser Pro Pro Leu Ser Ala Gly Asn Ile Tyr Gln Lys Arg Pro
 85 90 95

 Val Leu Gly Asp Ile Val Ser Gly Pro Val Leu Ser Cys Leu Leu His
 100 105 110
 Ile Ala Arg Leu Tyr Gly Glu Pro Val Leu Thr Tyr Gln Tyr Leu Pro
 115 120 125
 Tyr Ile Ser Tyr Leu Val Ala Pro Gly Ser Ala Ser Gly Pro Ser Arg
 130 135 140
 Leu Asn Ser Arg Lys Glu Ala Gly Leu Leu Ala Ala Val Thr Leu Thr
 145 150 155 160
 Gln Lys Ile Ile Val Tyr Leu Ser Asp Thr Thr Leu Met Asp Ile Leu
 165 170 175
 Pro Arg Ile Ser His Glu Val Leu Leu Pro Val Leu Ser Phe Leu Thr
 180 185 190
 Ser Leu Val Thr Gly Phe Pro Ser Gly Ala Gln Ala Arg Thr Ile Leu
 195 200 205
 Cys Val Lys Thr Ile Ser Leu Ile Ala Leu Ile Cys Leu Arg Ile Gly
 210 215 220
 Gln Glu Met Val Gln Gln His Leu Ser Glu Pro Val Ala Thr Phe Phe
 225 230 235 240
 Gln Val Phe Ser Gln Leu His Glu Leu Arg Gln Gln Asp Leu Lys Leu
 245 250 255
 Asp Pro Ala Gly Arg Gly Glu Gly Gln Leu Pro Gln Val Val Phe Ser
 260 265 270

Asp Gly Gln Gln Arg Pro Val	Asp Pro Ala Leu Leu	Asp Glu Leu Gln
275	280	285
Lys Val Phe Thr Leu Glu Met	Ala Tyr Thr Ile Tyr Val	Pro Phe Ser
290	295	300
Cys Leu Leu Gly Asp Ile Ile	Arg Lys Ile Ile Pro Asn His Glu Leu	
305	310	315 320
Val Gly Glu Leu Ala Ala Leu Tyr	Leu Glu Ser Ile Ser Pro Ser Ser	
	325	330 335
Arg Asn Pro Ala Ser Val Glu Pro	Thr Met Pro Gly Thr Gly Pro Glu	
	340	345 350
Trp Asp Pro His Gly Gly Gly	Cys Pro Gln Asp Asp Gly His Ser Gly	
	355	360 365
Thr Phe Gly Ser Val Leu Val Gly	Asn Arg Ile Gln Ile Pro Asn Gly	
	370	375 380
Ser Arg Pro Glu Asn Pro Gly Pro	Leu Gly Pro Ile Ser Gly Val Gly	
	385	390 395 400
Gly Gly Gly Leu Gly Ser Gly Ser	Asp Asp Asn Ala Leu Lys Gln Glu	
	405	410 415
Leu Pro Arg Ser Val His Gly Leu	Ser Gly Asn Trp Leu Ala Tyr Trp	
	420	425 430
Gln Tyr Glu Ile Gly Val Ser Gln	Gln Asp Ala His Phe His Phe His	
	435	440 445
Gln Ile Arg Leu Gln Ser Phe Pro	Gly His Ser Gly Ala Val Lys Cys	
	450	455 460
Val Ala Pro Leu Ser Ser Glu Asp	Phe Phe Leu Ser Gly Ser Lys Asp	
	465	470 475 480
Arg Thr Val Arg Leu Trp Pro Leu	Tyr Asn Tyr Gly Asp Gly Thr Ser	
	485	490 495
Glu Thr Ala Pro Arg Leu Val Tyr	Thr Gln His Arg Lys Ser Val Phe	
	500	505 510
Phe Val Gly Gln Leu Glu Ala Pro	Gln His Val Val Ser Cys Asp Gly	
	515	520 525
Ala Val His Val Trp Asp Pro Phe	Thr Gly Lys Thr Leu Arg Thr Val	
	530	535 540
Glu Pro Leu Asp Ser Arg Val Pro	Leu Thr Ala Val Ala Val Met Pro	
	545	550 555 560

Ala	Pro	His	Thr	Ser	Ile	Thr	Met	Ala	Ser	Ser	Asp	Ser	Thr	Leu	Arg
				565				570				575			
Phe	Val	Asp	Cys	Arg	Lys	Pro	Gly	Leu	Gln	His	Glu	Phe	Arg	Leu	Gly
				580				585				590			
Gly	Gly	Leu	Asn	Pro	Gly	Leu	Val	Arg	Ala	Leu	Ala	Ile	Ser	Pro	Ser
				595				600				605			
Gly	Arg	Ser	Val	Val	Ala	Gly	Phe	Ser	Ser	Gly	Phe	Met	Val	Leu	Leu
				610				615				620			
Asp	Thr	Arg	Thr	Gly	Leu	Val	Leu	Arg	Gly	Trp	Pro	Ala	His	Glu	Gly
625				630				635				640			
Asp	Ile	Leu	Gln	Ile	Lys	Ala	Val	Glu	Gly	Ser	Val	Leu	Val	Ser	Ser
				645				650				655			
Ser	Ser	Asp	His	Ser	Leu	Thr	Val	Trp	Lys	Glu	Leu	Glu	Gln	Lys	Pro
				660				665				670			
Thr	His	His	Tyr	Lys	Ser	Ala	Ser	Asp	Pro	Ile	His	Thr	Phe	Asp	Leu
				675				680				685			
Tyr	Gly	Ser	Glu	Val	Val	Thr	Gly	Thr	Val	Ser	Asn	Lys	Ile	Gly	Val
				690				695				700			
Cys	Ser	Leu	Leu	Glu	Pro	Pro	Ser	Gln	Ala	Thr	Thr	Lys	Leu	Ser	Ser
705				710				715				720			
Glu	Asn	Phe	Arg	Gly	Thr	Leu	Thr	Ser	Leu	Ala	Leu	Leu	Pro	Thr	Lys
				725				730				735			
Arg	His	Leu	Leu	Leu	Gly	Ser	Asp	Asn	Gly	Val	Ile	Arg	Leu	Leu	Ala
				740				745				750			

<210> 3345

<211> 805

<212> PRT

<213> Homo sapiens

<400> 3345

Met Ala Arg Leu His Glu His Leu Lys Tyr Phe Val Asn Met Lys Ile
1 5 10 15
Ser Thr Asp Lys Ser Trp Gln Gly Val Thr Ile Tyr Phe Ser Gly His
20 25 30

Glu	Thr	Pro	Gly	Glu	Gly	Glu	His	Lys	Ile	Met	Glu	Phe	Ile	Arg	Ser	
35						40						45				
Glu	Lys	Ala	Lys	Pro	Asp	His	Asp	Pro	Asn	Thr	Arg	His	Cys	Leu	Tyr	
50						55						60				
Gly	Leu	Asp	Ala	Asp	Leu	Ile	Met	Leu	Gly	Leu	Thr	Ser	His	Glu	Ala	
65						70						75			80	
His	Phe	Ser	Leu	Leu	Arg	Glu	Glu	Val	Arg	Phe	Gly	Gly	Lys	Lys	Thr	
			85						90						95	
Gln	Arg	Val	Cys	Ala	Pro	Glu	Glu	Thr	Thr	Phe	His	Leu	Leu	His	Leu	
100						105						110				
Ser	Leu	Met	Arg	Glu	Tyr	Ile	Asp	Tyr	Glu	Phe	Ser	Val	Leu	Lys	Glu	
115						120						125				
Lys	Ile	Thr	Phe	Lys	Tyr	Asp	Ile	Glu	Arg	Ile	Ile	Asp	Asp	Trp	Ile	
130						135						140				
Leu	Met	Gly	Phe	Leu	Val	Gly	Asn	Asp	Phe	Ile	Pro	His	Leu	Pro	His	
145						150						155			160	
Leu	His	Ile	Asn	His	Asp	Ala	Leu	Pro	Leu	Leu	Tyr	Gly	Thr	Tyr	Val	
			165						170						175	
Thr	Ile	Leu	Pro	Glu	Leu	Gly	Gly	Tyr	Ile	Asn	Glu	Ser	Gly	His	Leu	
180						185						190				
Asn	Leu	Pro	Arg	Phe	Glu	Lys	Tyr	Leu	Val	Lys	Leu	Ser	Asp	Phe	Asp	
195						200						205				
Arg	Glu	His	Phe	Ser	Glu	Val	Phe	Val	Asp	Leu	Lys	Trp	Phe	Glu	Ser	
210						215						220				
Lys	Val	Gly	Asn	Lys	Tyr	Leu	Asn	Glu	Ala	Ala	Gly	Val	Ala	Ala	Glu	
225						230						235			240	
Glu	Ala	Arg	Asn	Tyr	Lys	Glu	Lys	Lys	Lys	Leu	Lys	Gly	Gln	Glu	Asn	
			245						250						255	
Ser	Leu	Cys	Trp	Thr	Ala	Leu	Asp	Lys	Asn	Glu	Gly	Glu	Met	Ile	Thr	
260						265						270				
Ser	Lys	Asp	Asn	Leu	Glu	Asp	Glu	Thr	Glu	Asp	Asp	Asp	Leu	Phe	Glu	
275						280						285				
Thr	Glu	Phe	Arg	Gln	Tyr	Lys	Arg	Thr	Tyr	Tyr	Met	Thr	Lys	Met	Gly	
290						295						300				
Val	Asp	Val	Val	Ser	Asp	Asp	Phe	Leu	Ala	Asp	Gln	Ala	Ala	Cys	Tyr	
305						310						315			320	

Val Gln Ala Ile Gln Trp Ile Leu His Tyr Tyr Tyr His Gly Val Gln
 325 330 335
 Ser Trp Ser Trp Tyr Tyr Pro Tyr His Tyr Ala Pro Phe Leu Ser Asp
 340 345 350
 Ile His Asn Ile Ser Thr Leu Lys Ile His Phe Glu Leu Gly Lys Pro
 355 360 365
 Phe Lys Pro Phe Glu Gln Leu Leu Ala Val Leu Pro Ala Ala Ser Lys
 370 375 380
 Asn Leu Leu Pro Ala Cys Tyr Gln His Leu Met Thr Asn Glu Asp Ser
 385 390 395 400
 Pro Ile Ile Glu Tyr Tyr Pro Pro Asp Phe Lys Thr Asp Leu Asn Gly
 405 410 415
 Lys Gln Gln Glu Trp Glu Ala Val Val Leu Ile Pro Phe Ile Asp Glu
 420 425 430
 Lys Arg Leu Leu Glu Ala Met Glu Thr Cys Asn His Ser Leu Lys Lys
 435 440 445
 Glu Glu Arg Lys Arg Asn Gln His Ser Glu Cys Leu Met Cys Trp Tyr
 450 455 460
 Asp Arg Asp Thr Glu Phe Ile Tyr Pro Ser Pro Trp Pro Glu Lys Phe
 465 470 475 480
 Pro Ala Ile Glu Arg Cys Cys Thr Arg Tyr Lys Ile Ile Ser Leu Asp
 485 490 495
 Ala Trp Arg Val Asp Ile Asn Lys Asn Lys Ile Thr Arg Ile Asp Gln
 500 505 510
 Lys Ala Leu Tyr Phe Cys Gly Phe Pro Thr Leu Lys His Ile Arg His
 515 520 525
 Lys Phe Phe Leu Lys Lys Ser Gly Val Gln Val Phe Gln Gln Ser Ser
 530 535 540
 Arg Gly Glu Asn Met Met Leu Glu Ile Leu Val Asp Ala Glu Ser Asp
 545 550 555 560
 Glu Leu Thr Val Glu Asn Val Ala Ser Ser Val Leu Gly Lys Ser Val
 565 570 575
 Phe Val Asn Trp Pro His Leu Glu Glu Ala Arg Val Val Ala Val Ser
 580 585 590
 Asp Gly Glu Thr Lys Phe Tyr Leu Glu Glu Pro Pro Gly Thr Gln Lys
 595 600 605

Leu Tyr Ser Gly Arg Thr Ala Pro Pro Ser Lys Val Val His Leu Gly
 610 615 620
 Asp Lys Glu Gln Ser Asn Trp Ala Lys Glu Val Gln Gly Ile Ser Glu
 625 630 635 640
 His Tyr Leu Arg Arg Lys Gly Ile Ile Ile Asn Glu Thr Ser Ala Val
 645 650 655
 Val Tyr Ala Gln Leu Leu Thr Gly Arg Lys Tyr Gln Ile Asn Gln Asn
 660 665 670
 Gly Glu Val Arg Leu Glu Lys Gln Trp Ser Lys Gln Val Val Pro Phe
 675 680 685
 Val Tyr Gln Thr Ile Val Lys Asp Ile Arg Ala Phe Asp Ser Arg Phe
 690 695 700
 Ser Asn Ile Lys Thr Leu Asp Asp Leu Phe Pro Leu Arg Ser Met Val
 705 710 715 720
 Phe Met Leu Gly Thr Pro Tyr Tyr Gly Cys Thr Gly Glu Val Gln Asp
 725 730 735
 Ser Gly Asp Val Ile Thr Glu Gly Arg Ile Arg Val Ile Phe Ser Ile
 740 745 750
 Pro Cys Glu Pro Asn Leu Asp Ala Leu Ile Gln Asn Gln His Lys Tyr
 755 760 765
 Ser Ile Lys Tyr Asn Pro Gly Tyr Val Leu Ala Ser Arg Leu Gly Val
 770 775 780
 Ser Gly Tyr Leu Val Ser Arg Phe Thr Gly Ser Ile Phe Ile Gly Arg
 785 790 795 800
 Gly Ser Arg Arg Lys
 805

<210> 3346

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3346

Met Tyr Val Val Phe Tyr Ala Asp Arg Ile Ile Gln Lys Asn Ala Leu
 1 5 10 15

Lys	Ser	Phe	Ala	Leu	Val	Ala	Gln	Ala	Gly	Val	Gln	Trp	Cys	Asp	Pro
			20						25					30	
Gly	Ser	Leu	Gln	Pro	Leu	Pro	Pro	Gly	Leu	Lys	Arg	Phe	Ser	Cys	Leu
			35					40					45		
Ser	Leu	Leu	Ser	Ser	Trp	Asp	Tyr	Arg	Arg	Ile	Pro	Trp	Glu	His	Pro
	50						55					60			
Pro	Ala	Glu	Ile	Cys	Thr	Ser	Ala	Thr	Ile	Leu	Ser	Gly	Arg	Arg	Lys
65						70					75				80
Gly	Lys	Gly	Ser	Ala	Ala	Ser	Leu	Ala	Thr	Ala	Cys	Ile	Ile	Ser	Ser
				85						90					95
Gln	Arg	Arg	Ser	Thr	Gly	Ser	Gly	Ser	Phe	Arg	Ala				
			100					105							

<210> 3347

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3347

Met	Pro	Val	Ile	Pro	Ala	Thr	Arg	Glu	Ala	Glu	Ala	Arg	Glu	Ser	Leu
1				5					10					15	
Asp	Ser	Lys	His	Ser	Phe	Ile	His	Ile	Pro	Ile	His	Pro	Tyr	Thr	Tyr
				20				25					30		
Ser	Ser	Asn	Ser	Cys	Ser	Ser	Lys	His	Pro	Ser	Ile	His	Pro	Ser	Ile
				35				40					45		
His	Pro	Ser	Ile	His	Pro	Ser	Ile	Tyr	Thr	Ser	Ile	Tyr	Pro	Phe	Met
				50			55				60				
His	Leu	Tyr	Ile	Tyr	Leu	Leu	Ile	Lys	Phe	Leu	Ser	Ile	His	Pro	Ser
65					70				75					80	
Thr	Tyr	Leu	Ser	Asn	Phe	Cys	Ser	Ser	Lys	His	Pro	Pro	Ile	His	Leu
				85					90					95	
Ser	Thr	His	Pro	Ser	Ile	His	Ala	Cys	Met	His	Pro	Ser	Ile	His	Thr
				100				105					110		
Tyr	Ile	His	Ser	Leu	Ile	Arg	Leu	Tyr	Thr	His	Pro	Ser	Met	Tyr	Leu
				115			120						125		

Phe Ile

130

<210> 3348

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3348

Met Ser Lys Leu Ala Val Leu Thr Arg Thr Leu Glu Gly Met Ala Met
 1 5 10 15
 Glu His Arg Leu Glu Met Val Arg Phe Ile Phe Thr Ser Pro Ala Pro
 20 25 30
 Leu Asp Lys Val Leu Gly Met Val Arg Ala Tyr Lys Glu Thr Gln Thr
 35 40 45
 Ala Ile Asn Ile Ser Leu Tyr Asp Ala Met Pro Trp Arg Pro Asn Pro
 50 55 60
 Pro Leu Leu Phe Phe Phe Phe Phe Leu Thr Gly Ser His Phe Val Thr
 65 70 75 80
 Gln Ala Gly Val Glu Trp Gly Asp Leu Gly Ser Leu Gln Pro Pro Gln
 85 90 95
 Pro Pro Gly Leu Lys Pro Ser Ser Cys Leu Ser Pro Pro Ser Ser Trp
 100 105 110
 Asp Tyr Arg His Ala Pro Ser Cys Leu Ala Ser Phe Phe Phe Phe Phe
 115 120 125
 Glu Thr Glu Ser Cys Ser Leu Pro Gln Ala Arg Val Gln Trp His Asp
 130 135 140
 Leu Gly Ser Leu Gln Ala Pro Pro Pro
 145 150

<210> 3349

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3349

Met Glu Ile Asp Gly Phe Gln Gln Leu Asp Leu Glu Lys Ser Val Pro
 1 5 10 15
 Ser Lys Lys Thr Thr Pro Lys Arg Ile Ile His Phe Val Asp Gly Asp
 20 25 30
 Ile Met Glu Glu Tyr Ser Thr Glu Glu Glu Glu Glu Glu Lys Glu
 35 40 45
 Glu Gln Ser Thr Asn Ser Thr Leu Asp Pro Ser Lys Leu Ser Trp Gly
 50 55 60
 Pro Tyr Leu Arg Phe Trp Ala Gly Arg Ile Ala Ser Thr Ser Phe Ser
 65 70 75 80
 Met Leu Ser Leu Gln Ala Thr Leu Leu Leu Lys Ala Glu Lys Glu Gly
 85 90 95
 Leu Lys Gln Leu Leu Arg Ser Leu Ser Gly Cys Met Glu Glu Phe Leu
 100 105 110
 Met Trp Val Leu Val Thr Leu Asp
 115 120

<210> 3350

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3350

Met Glu Thr Leu Val Val Trp Lys Ile Gln Glu Thr Ser Ile Leu Thr
 1 5 10 15
 Ile Ile Lys Ile His Met Gly Cys Ala Gln Trp Leu Ser Pro Val Ile
 20 25 30
 Pro Ala Phe Trp Glu Ala Gly Val Gly Gly Leu Leu Glu Ala Arg Tyr
 35 40 45
 Ser Arg Pro Ala Trp Gln Pro Gly Glu Ile Pro Cys Ile Gln Lys Ile
 50 55 60
 Glu Lys Leu Ala Arg Asp Asp Gly Val Arg Leu Trp Ser Gln Leu Leu
 65 70 75 80

Gly	Arg	Leu	Arg	Trp	Glu	Asp	Cys	Leu	Ser	Leu	Gly	Gly	Arg	Gly	Cys
				85					90					95	
Ser	Glu	Trp	Arg	Leu	Arg	His	Trp	Thr	Pro	Ala	Trp	Ala	Thr	Val	Arg
			100					105					110		
Pro	Cys	Leu	Lys	Lys	Leu	Ile	Met								
			115				120								

<210> 3351

<211> 862

<212> PRT.

<213> Homo sapiens

<400> 3351

Met	Trp	Gln	Leu	Leu	Pro	Val	Glu	Gln	Asp	Thr	Ser	Asn	Val	Thr	Glu
1				5					10					15	
Met	Lys	Val	Ser	Glu	Lys	Ser	His	Asn	Ala	Phe	Lys	Ala	Thr	Asn	Lys
				20					25					30	
Lys	Arg	Glu	Thr	Asp	Val	His	Leu	Lys	Ser	Gln	Asp	Phe	Leu	Met	Lys
				35					40					45	
Thr	Asn	Thr	Ser	Thr	Gly	Leu	Lys	Met	Ala	Met	Glu	Arg	Ser	Leu	Asn
				50				55					60		
Pro	Ile	Asn	Phe	Asn	Pro	Glu	Asn	Asn	Val	Lys	Glu	Ser	Glu	Cys	Pro
65					70					75					80
Leu	Pro	Pro	Pro	Ser	Pro	Pro	Pro	Pro	Pro	Pro	Ser	Asn	Ala	Ser	Ser
				85						90					95
Glu	Ile	Glu	Phe	Pro	Leu	Pro	Pro	Pro	Pro	Pro	Leu	Met	Met	Phe	Pro
				100					105					110	
Glu	Lys	Asn	Gly	Phe	Leu	Pro	Ser	Leu	Ser	Thr	Glu	Lys	Ile	Lys	Ala
				115					120					125	
Glu	Phe	Glu	Ser	Phe	Pro	Gly	Leu	Pro	Leu	Pro	Pro	Pro	Pro	Val	Asp
				130				135						140	
Glu	Lys	Ser	Glu	Arg	Glu	Ser	Ser	Ser	Met	Phe	Leu	Pro	Pro	Pro	Pro
145					150					155					160
Pro	Pro	Thr	Pro	Ser	Gln	Lys	Pro	Ala	His	Leu	Leu	Ser	Ser	Ser	Ala
				165						170					175

Pro Glu Lys His Ser Gly Asp Phe Met Gln Gln Tyr Ser Gln Lys Glu
 180 185 190
 Ala Ser Asn Ser Gln Asn Ser Gln Ala Lys Ile Ile Thr Gly Lys Thr
 195 200 205
 Gly Val Leu Pro Pro Pro Thr Leu Pro Lys Pro Lys Leu Pro Lys His
 210 215 220
 Ile Lys Asp Asn Lys Asn Asp Phe Ser Pro Lys Val Glu Leu Ala Thr
 225 230 235 240
 Ser Leu Ser Asp Met Glu Cys Lys Ile Thr Thr Ser Lys Asp Gln Lys
 245 250 255
 Lys Val Met Val Met Thr Ser Ser Glu His Thr Glu Thr Lys Gln Asn
 260 265 270
 Val Ile Ser Lys Ser Leu Asp Glu Arg Lys Gln Leu Ser Ile Asp Ser
 275 280 285
 Ala Asn Cys Leu Ser His Thr Val Pro Gly Thr Ser Ala Pro Arg Lys
 290 295 300
 Lys Gln Ile Ala Pro Leu Ile Lys Ser His Ser Phe Pro Glu Ser Ser
 305 310 315 320
 Gly Gln Gln Asn Pro Lys Pro Tyr Met Arg Lys Phe Lys Thr Pro Leu
 325 330 335
 Met Ile Ala Glu Glu Lys Tyr Arg Gln Gln Lys Glu Glu Ile Glu Lys
 340 345 350
 Gln Lys Gln Glu Ser Ser Tyr Tyr Asn Ile Val Lys Thr Gln Ser Gln
 355 360 365
 Asn Gln His Ile Thr Glu Val Glu Lys Glu Met Pro Leu Gln Lys Thr
 370 375 380
 Asn Glu Glu Val Ser Leu Ser Gly Ile Asp Ser Glu Cys Thr Val Val
 385 390 395 400
 Gln Pro Ser Pro Gly Ser Gln Ser Asn Ala Arg Ile Leu Gly Val Cys
 405 410 415
 Ser Asp Asn Gln Leu Ser Thr Thr Ser Pro Glu Thr Val Ala Ala Lys
 420 425 430
 Arg Leu His His Val Leu Ala Ala Ser Glu Asp Lys Asp Lys Met Lys
 435 440 445
 Lys Glu Val Leu Gln Ser Ser Arg Asp Ile Met Gln Ser Lys Ser Ala
 450 455 460

Cys Glu Ile Lys Gln Ser His Gln Glu Cys Ser Thr Gln Gln Thr Gln
 465 470 475 480
 Gln Lys Lys Tyr Leu Glu Gln Leu His Leu Pro Gln Ser Lys Pro Ile
 485 490 495
 Ser Pro Asn Phe Lys Val Lys Thr Ile Lys Leu Pro Thr Leu Asp His
 500 505 510
 Thr Leu Asn Glu Thr Asp His Ser Tyr Glu Ser His Lys Gln Gln Ser
 515 520 525
 Glu Ile Asp Val Gln Thr Phe Thr Lys Lys Gln Tyr Leu Lys Thr Lys
 530 535 540
 Lys Thr Glu Ala Ser Thr Glu Cys Ser His Lys Gln Ser Leu Ala Glu
 545 550 555 560
 Arg His Tyr Gln Leu Pro Lys Lys Glu Lys Arg Val Thr Val Gln Leu
 565 570 575
 Pro Thr Glu Ser Ile Gln Lys Asn Gln Glu Asp Lys Leu Lys Met Val
 580 585 590
 Pro Arg Lys Gln Arg Glu Phe Ser Gly Ser Asp Arg Gly Lys Leu Pro
 595 600 605
 Gly Ser Glu Glu Lys Asn Gln Gly Pro Ser Met Ile Gly Arg Lys Glu
 610 615 620
 Glu Arg Leu Ile Thr Glu Arg Lys His Glu His Leu Lys Asn Lys Ser
 625 630 635 640
 Ala Pro Lys Val Val Lys Gln Lys Val Ile Asp Ala His Leu Asp Ser
 645 650 655
 Gln Thr Gln Asn Phe Gln Gln Thr Gln Ile Gln Thr Ala Glu Ser Lys
 660 665 670
 Ala Glu His Lys Lys Leu Pro Gln Pro Tyr Asn Ser Leu Gln Glu Glu
 675 680 685
 Lys Cys Leu Glu Val Lys Gly Ile Gln Glu Lys Gln Val Phe Ser Asn
 690 695 700
 Thr Lys Asp Ser Lys Gln Glu Ile Thr Gln Asn Lys Ser Phe Phe Ser
 705 710 715 720
 Ser Val Lys Glu Ser Gln Arg Asp Asp Gly Lys Gly Ala Leu Asn Ile
 725 730 735
 Val Glu Phe Leu Arg Lys Arg Glu Glu Leu Gln Gln Ile Leu Ser Arg
 740 745 750

Val Lys Gln Phe Glu Ala Glu Pro Asn Lys Ser Gly Leu Lys Thr Phe
 755 760 765
 Gln Thr Leu Leu Asn Thr Ile Pro Gly Trp Leu Ile Ser Glu Asp Lys
 770 775 780
 Arg Glu Tyr Ala Val His Ile Ala Met Glu Asn Asn Leu Glu Lys Val
 785 790 795 800
 Lys Glu Glu Ile Thr His Ile Lys Thr Gln Ala Glu Asp Met Leu Val
 805 810 815
 Ser Tyr Glu Asn Ile Ile Gln Thr Ala Met Met Ser Ser Lys Thr Gly
 820 825 830
 Lys Pro Gly Asn Lys Pro Thr Ser Leu Asp Glu Thr Ser Ser Lys Val
 835 840 845
 Ser Asn Val His Val Ser Asn Asn Lys Asn Ser Glu Gln Lys
 850 855 860

<210> 3352

<211> 198

<212> PRT

<213> Homo sapiens

<400> 3352

Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp Val Val Gly Met Phe
 1 5 10 15
 Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly Gly Gly Val Gly Asp
 20 25 30
 Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg Gly Met Leu Lys Thr
 35 40 45
 Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys Ser Lys Pro Ile Pro
 50 55 60
 Ile Met Pro Ala Ser Pro Gln Lys Lys Lys Lys Ile Lys Gln His Pro
 65 70 75 80
 Asp Arg Tyr Thr Tyr Ser Phe Arg Leu Thr Asp Leu Ser Cys Ile Tyr
 85 90 95
 Gly Val Val Met Arg Phe Arg Thr Tyr Thr Tyr Phe Val Lys Ile Pro
 100 105 110

Gln Met Ile Leu Gly Met Asn Asp Tyr Ile Ile Asn Phe Lys Met Tyr
 115 120 125
 Leu Glu Ile Leu Lys Thr Ser Ser Pro Val Ser Asn Arg Gln His Ile
 130 135 140
 Tyr Ile Ala Asp Ile Thr Phe Phe Ser Val Tyr Asp Gln Val Phe Met
 145 150 155 160
 Lys Asp Tyr Trp Gln Gly Lys Tyr Glu Tyr Val Asn Phe Ser Leu Trp
 165 170 175
 His Gln Phe Thr Lys Glu Gln Gln Ala His Gln Leu Met Ser Asn Ile
 180 185 190
 Lys Thr Pro Thr Ser Val
 195

<210> 3353

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3353

Met Cys Met Ile Asn Val Pro Leu Glu Gln Asp Asp Trp Asn Pro Gln
 1 5 10 15
 Val Pro Ser Pro Thr Gln Leu Cys Pro Leu Ser Leu Pro Trp Pro Thr
 20 25 30
 Gln Leu Leu Gln Gln Thr Pro Val Gly Leu His Trp Ser Arg Gln Gln
 35 40 45
 Glu Gly Pro Gln Ala Leu Ser Tyr Trp Glu Ser Gly Asp Gly Thr Gly
 50 55 60
 Thr Arg Leu Leu Arg Lys Glu Gly Ser Trp Pro Val Gln Asn Val Ala
 65 70 75 80
 Asp Gly Pro Ala Trp Trp Leu Met Pro Val Val Leu Ala Leu Gly Glu
 85 90 95
 Ala Glu Ala Asp Arg Ser Pro Glu Val Gly Ser Pro Thr Pro Ala Trp
 100 105 110
 Pro Ala

<210> 3354

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3354

```

Met Gly Phe Val Asn Ser Arg Lys Gly Thr Lys Phe Cys Leu Lys Arg
 1             5             10             15
Glu Gly Phe Ser Lys Gly Val Met Phe Asp Leu Arg Pro Arg Glu Gly
      20             25             30
Glu Arg Lys Glu Ala Cys Arg Gly Ala Leu Val Thr Arg Gly Met Leu
      35             40             45
Tyr Cys Val Asp Ser Arg Asn Arg Gly Glu Ala Leu Ala Leu Ser Leu
      50             55             60
Ser Ala Phe Trp Phe Met Gln Leu Ser Leu Pro Lys Ile Phe Phe Tyr
      65             70             75             80
Leu Cys Phe Cys Leu Gln Leu Leu Pro Leu Glu Val Ser Leu Ser Phe
      85             90             95
Lys Phe Arg Glu Pro Cys Leu Trp His
      100             105

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<210> 3355

<211> 250

<212> PRT

<213> Homo sapiens

<400> 3355

```

Met Pro Leu Asp Lys Met Val Asp Leu Ser Gly Ser Gln Leu Arg Arg
 1             5             10             15
Phe Pro Leu His Val Cys Ser Phe Arg Glu Leu Val Lys Leu Tyr Leu
      20             25             30
Ser Asp Asn His Leu Asn Ser Leu Pro Pro Glu Leu Gly Gln Leu Gln
      35             40             45

```

Asn Leu Gln Ile Leu Ala Leu Asp Phe Asn Asn Phe Lys Ala Leu Pro
 50 55 60
 Gln Val Val Cys Thr Leu Lys Gln Leu Cys Ile Leu Tyr Leu Gly Asn
 65 70 75 80
 Asn Lys Leu Cys Asp Leu Pro Ser Glu Leu Ser Leu Leu Gln Asn Leu
 85 90 95
 Arg Thr Leu Trp Ile Glu Ala Asn Cys Leu Thr Gln Leu Pro Asp Val
 100 105 110
 Val Cys Glu Leu Ser Leu Leu Lys Thr Leu His Ala Gly Ser Asn Ala
 115 120 125
 Leu Arg Leu Leu Pro Gly Gln Leu Arg Arg Leu Gln Glu Leu Arg Thr
 130 135 140
 Ile Trp Leu Ser Gly Asn Arg Leu Thr Asp Phe Pro Thr Val Leu Leu
 145 150 155 160
 His Met Pro Phe Leu Glu Val Ile Asp Val Asp Trp Asn Ser Ile Arg
 165 170 175
 Tyr Phe Pro Ser Leu Ala His Leu Ser Ser Leu Lys Leu Val Ile Tyr
 180 185 190
 Asp His Asn Pro Cys Arg Asn Ala Pro Lys Val Ala Lys Gly Val Arg
 195 200 205
 Arg Val Gly Arg Trp Ala Glu Glu Thr Pro Glu Pro Asp Pro Arg Lys
 210 215 220
 Ala Arg Arg Tyr Ala Leu Val Arg Glu Glu Ser Gln Glu Leu Gln Ala
 225 230 235 240
 Pro Val Pro Leu Leu Pro Pro Thr Asn Ser
 245 250

<210> 3356

<211> 106

<212> PRT

<213> Homo sapiens

<400> 3356

Met Thr Ser Val Ala His Met Ser Thr Phe Arg Pro His Ile Cys His
 1 5 10 15

Leu	Ser	Lys	Thr	Ser	Pro	His	Pro	Leu	Val	Thr	Arg	Lys	Arg	Ala	Ser
20				25				30							
Ser	Pro	His	Val	Val	Ile	Val	Leu	Thr	Ser	Gly	Leu	Lys	Gly	Lys	Ala
35				40				45							
Ser	Leu	Arg	Leu	Arg	Pro	His	Leu	Pro	Val	Ile	Phe	His	Pro	Ile	Pro
50				55				60							
Leu	Pro	Arg	Leu	Leu	Gly	Leu	Ser	Ser	Cys	Ser	Ile	Pro	Pro	Phe	Ala
65				70				75				80			
Val	Ser	Val	Pro	Pro	Phe	Pro	Pro	Gly	Ser	Ser	Ser	Ser	Ala	Met	Cys
85				90				95							
Ser	Leu	Pro	Phe	Leu	Leu	Lys	Arg	Lys	Thr						
100				105											

<210> 3357

<211> 214

<212> PRT

<213> Homo sapiens

<400> 3357

Met	Asn	Asn	Glu	Thr	Thr	Leu	Ile	Ser	Leu	Lys	Glu	Ala	Met	Lys	
1				5				10					15		
Arg	Val	Asp	His	Lys	Leu	Gln	Ala	Leu	Glu	Thr	Gln	Phe	Lys	Glu	Leu
				20				25					30		
Asp	Phe	Thr	Lys	Asp	Asn	Leu	Met	Gln	Lys	Phe	Glu	His	His	Ser	Lys
				35				40					45		
Ala	Leu	Ala	Ser	Gln	Ala	Ala	Gln	Asp	Glu	Met	Trp	Thr	Ala	Val	Arg
				50				55					60		
Ala	Leu	Gln	Leu	Thr	Ser	Met	Glu	Leu	Asn	Ile	Leu	Tyr	Ser	Tyr	Val
				65				70					75		80
Ile	Glu	Val	Leu	Ile	Cys	Leu	His	Thr	Arg	Val	Leu	Glu	Lys	Leu	Pro
				85				90					95		
Asp	Leu	Val	Arg	Gly	Leu	Pro	Thr	Leu	Ala	Ser	Val	Leu	Arg	Arg	Lys
				100				105					110		
Val	Lys	Asn	Lys	Arg	Val	Arg	Val	Val	Trp	Glu	Ser	Ile	Leu	Glu	Glu
				115				120					125		

Cys Gly Leu Gln Glu Gly Asp Ile Thr Ala Leu Cys Thr Phe Phe Ile
 130 135 140
 Ala Arg Gly Asn Lys Ala Glu His Tyr Thr Ala Lys Val Arg Gln Met
 145 150 155 160
 Tyr Ile Arg Asp Val Thr Phe Leu Ile Thr Asn Met Val Lys Asn Gln
 165 170 175
 Ala Leu Gln Asp Ser Leu Leu Arg Ala Val Gln Val Ile Glu Lys Gly
 180 185 190
 Lys Ala Val Arg Thr Pro Glu Lys Gln Lys Ser Ser Leu Glu Glu Leu
 195 200 205
 Ile Pro Ser Val Lys Asn
 210

<210> 3358

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3358

Met Gln Met Gly Asp Glu Phe Leu His Thr Leu Val Phe Leu Pro Phe
 1 5 10 15
 Val Asn Leu Thr Thr Asn Val Leu Ser Tyr Arg Lys Met Cys Val Arg
 20 25 30
 Val Cys Met Ser Glu Cys Val Arg Val Cys Val Cys Ala Cys Cys Lys
 35 40 45
 Asn Met Leu Glu Cys Glu Cys Gly Val Cys Leu His Val Cys Met Cys
 50 55 60
 Glu Cys Met His Ala Arg Val Cys Lys Ser Val His Val His Val Cys
 65 70 75 80
 Glu Thr Thr Gly Met Arg Tyr Val Arg Met Ser Val Cys Thr Cys Val
 85 90 95
 Ser Met Cys Ile Val Tyr Asn Val His Glu Tyr Ser Val Arg Ala
 100 105 110

<210> 3359

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3359

```

Met Gly Lys Arg Asp Asn Arg Val Ala Tyr Met Asn Pro Ile Ala Met
  1             5             10             15
Ala Arg Ser Arg Gly Pro Ile Gln Ser Ser Gly Pro Thr Ile Gln Asp
      20             25             30
Tyr Leu Asn Arg Pro Arg Pro Thr Trp Glu Glu Val Lys Glu Gln Leu
      35             40             45
Glu Lys Lys Lys Lys Gly Ser Lys Ala Leu Ala Glu Phe Glu Glu Lys
      50             55             60
Met Asn Glu Asn Trp Lys Lys Glu Leu Glu Lys His Arg Glu Lys Leu
      65             70             75             80
Leu Ser Gly Ser Glu Ser Ser Ser Lys Lys Arg Gln Arg Lys Lys Lys
      85             90             95
Glu Lys Lys Lys Ser Gly Arg Val Ser Lys Asn Phe Pro Phe Phe
      100            105            110

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<210> 3360

<211> 290

<212> PRT

<213> Homo sapiens

<400> 3360

```

Met Glu Ala Leu Ala Ser Thr Glu Lys Met Leu Gln Asp Lys Val Asn
  1             5             10             15
Lys Thr Ser Lys Glu Arg Gln Gln Gln Val Glu Ala Val Glu Leu Glu
      20             25             30
Ala Lys Glu Val Leu Lys Lys Leu Phe Pro Lys Val Ser Val Pro Ser
      35             40             45
Asn Leu Ser Tyr Gly Glu Trp Leu His Gly Phe Glu Lys Lys Ala Lys
      50             55             60

```

Glu Cys Met Ala Gly Thr Ser Gly Ser Glu Glu Val Lys Val Leu Glu
 65 70 75 80
 His Lys Leu Lys Glu Ala Asp Glu Met His Thr Leu Leu Gln Leu Glu
 85 90 95
 Cys Glu Lys Tyr Lys Ser Val Leu Ala Glu Thr Glu Gly Ile Leu Gln
 100 105 110
 Lys Leu Gln Arg Ser Val Glu Gln Glu Glu Asn Lys Trp Lys Val Lys
 115 120 125
 Val Asp Glu Ser His Lys Thr Ile Lys Gln Met Gln Ser Ser Phe Thr
 130 135 140
 Ser Ser Glu Gln Glu Leu Glu Arg Leu Arg Ser Glu Asn Lys Asp Ile
 145 150 155 160
 Glu Asn Leu Arg Arg Glu Arg Glu His Leu Glu Met Glu Leu Gly Lys
 165 170 175
 Ala Glu Met Glu Arg Ser Thr Tyr Val Thr Glu Val Arg Glu Leu Lys
 180 185 190
 Ala Gln Leu Asn Glu Thr Leu Thr Lys Leu Arg Thr Glu Gln Asn Glu
 195 200 205
 Arg Gln Lys Val Ala Gly Asp Leu His Lys Ala Gln Gln Ser Leu Glu
 210 215 220
 Leu Ile Gln Ser Lys Ile Val Lys Ala Ala Gly Asp Thr Thr Val Ile
 225 230 235 240
 Glu Asn Ser Asp Val Ser Pro Glu Thr Glu Ser Ser Glu Lys Glu Thr
 245 250 255
 Met Ser Val Ser Leu Asn Gln Thr Val Thr Gln Leu Gln Gln Leu Leu
 260 265 270
 Gln Ala Val Asn Gln Gln Leu Thr Lys Glu Lys Glu His Tyr Gln Val
 275 280 285
 Leu Glu
 290

<210> 3361

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3361

Met Ala Ala Ala Arg Thr Pro Pro Gly Gln Gln Pro Arg Leu Thr Ser
 1 5 10 15
 Pro Pro Pro Pro Ser Ile Ser Pro Ala Ala Trp Arg Trp Glu Ala Ala
 20 25 30
 Pro Arg Gly His Gly Pro Ser Pro Lys Ala His Thr Pro Ala Phe Arg
 35 40 45
 Arg His Pro Pro Leu Thr Thr Ala Arg Glu Val Ala Arg Val Arg Thr
 50 55 60
 Leu His Pro Gln Asp Val Ala Leu Ala Gly Pro Pro Gly Ser Gly Cys
 65 70 75 80
 Leu Arg Trp Val Trp Asp Leu Ser Cys Gly Val Phe Asp Gly Gly Trp
 85 90 95
 Leu Gly Arg Glu Ala Ser Ser Val Gly Arg Gly Pro Arg Gly Pro Gly
 100 105 110
 Ala Ala Val Val Lys Met Arg Arg His Gly Gly Arg Gly Lys Ala Pro
 115 120 125
 Leu Pro Ser Ser Thr Pro Ala Pro Gly Asp Cys Phe Leu Tyr
 130 135 140

<210> 3362

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3362

Met Leu Arg Gln Cys Tyr Lys Glu Asp Gly Ser Ser Lys Ser Pro Asp
 1 5 10 15
 Cys Pro Val Cys Ser Arg Ser Leu Asn Lys Leu Ala Gln Pro Leu Pro
 20 25 30
 Met Ala His Cys Ala Asn Ser Arg Leu Val Cys Lys Ile Ser Gly Asp
 35 40 45
 Val Met Asn Glu Asn Asn Pro Pro Met Met Leu Pro Asn Gly Tyr Val
 50 55 60

Tyr Gly Tyr Asn Val Arg Gly Ala Gly Gln Gly Gly Gln Ala Gly Thr
 65 70 75 80
 His Arg His Arg Asp Arg Ala Val Trp Asp Gly Gln Gly Arg Gly Ala
 85 90 95
 Arg Leu Ala Arg Ile Ala Ile Gly Thr Gly Leu Cys Gly Thr Gly Arg
 100 105 110
 Ala Gly Gly Gln Ala Gly Thr Arg Arg His Arg Asp Arg Ala Val Trp
 115 120 125
 Gly Gly Gln Gly Ser Gly Ala Arg Leu Ala His Val Ala Ile Gly Thr
 130 135 140
 Gly Leu Ser Ser Arg Pro Thr Leu Pro
 145 150

<210> 3363

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3363

Met Ser Met Lys Leu Ser Val Thr Cys Glu Ser Ala Val Pro Met Ser
 1 5 10 15
 Ile Tyr Val Leu Asn Leu Leu Leu Phe Gln Lys Arg Gly Leu Ala His
 20 25 30
 Gln Leu Glu Glu Tyr Leu Leu Lys Trp Arg Arg Asn Lys Ala Thr Lys
 35 40 45
 Val Ala Lys Ile Ser Ser Glu Gln Lys Lys Ile Leu Arg Arg Lys Met
 50 55 60
 Val Leu Gln Leu Val Leu Gln Gly Leu Ala Thr Cys Val Ser His Ser
 65 70 75 80
 Arg Ala Ala Asn His Gly Val Gly Pro Ser His Phe Ala Gln Gly Gly
 85 90 95
 Leu Arg Ser Ser Gly Lys Val Leu Leu Gln Val Thr Asp Tyr Arg Cys
 100 105 110
 Val Val Glu Gly Gln Ala
 115

<210> 3364

<211> 142

<212> PRT

<213> Homo sapiens

<400> 3364

```

Met Trp Ser Leu Pro His Pro Thr Trp Thr Leu Asp Ser Thr Cys Tyr
  1              5              10              15
Ala Ala Ala Pro Ala Trp Ala Ser Phe Ser Pro Arg Thr Asp Ser Asp
      20              25              30
Ile Pro His Cys Ser Thr Thr Leu His Gly His Pro Pro His Pro Ala
      35              40              45
Trp Ala Leu Thr Pro Tyr Ser Arg Pro Pro Pro Ala Met Ser Gly His
      50              55              60
Pro Pro His Pro Ser Trp Ala Cys Lys Leu His Ile Thr Cys Pro His
      65              70              75              80
Ala Trp Ile Pro Phe Ser Pro His Met Ala Ser Asp Thr Pro Pro Trp
      85              90              95
Thr Ala Ile Leu Gln Gly Ser Thr Ser Ser Pro Ala Gln Ala Cys Trp
      100             105             110
Pro Pro Ala Trp Met Leu Phe Phe Thr Gly Pro Ala Leu Thr Pro Pro
      115             120             125
Gly Ala Ser Cys Ala Gly Val Phe Leu Thr Leu Leu Gly Leu
      130             135             140

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<210> 3365

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3365

```

Met Asp Pro Val Ala Ser Ser Ser Ile Arg Pro Glu Pro Asp Ser His

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1	5	10	15												
Tyr	Leu	Gln	Phe	Gln	Thr	Gln	Pro	His	Val	Leu	Trp	Asn	Arg	Leu	Pro
	20					25						30			
Glu	Ala	Trp	Asp	Arg	Ser	Glu	Ser	Leu	Asp	Ser	Ser	Trp	Gly	Gly	Trp
	35					40						45			
Val	Gly	Val	Arg	Gly	Arg	Val	Pro	Glu	Gly	Pro	His	Ser	Thr	Leu	Ser
	50					55						60			
Trp	Ser	Ala	Gly	Gln	Gln	Glu	Glu	Gln	Ala	Trp	Gly	Trp	Leu	Trp	Ser
	65					70						75			80
Leu	Pro	Pro	Arg	Ser	Glu	Ala	Val	Arg	Gln	Glu	Lys	Gly	Glu	Lys	Glu
			85							90				95	
Pro	Ser	Phe	Leu	Glu	Ser	Asp	Ser	Asp	Pro	Ser	Arg	His	Ser	Gln	Leu
	100								105					110	
Val	Ser	Gly	Asp	Leu	Ser	Leu	Thr	His							
	115						120								

<210> 3366

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3366

Met	Pro	Gln	Thr	Lys	Asp	Glu	Gly	Gly	Gly	Arg	Trp	Gly	Val	Gly	Gly
1				5						10				15	
Leu	Ser	Asn	Lys	Val	Trp	Cys	Cys	Arg	Thr	Phe	Ser	Phe	Phe	Phe	Phe
		20						25					30		
Phe	Phe	Phe	Phe	Phe	Leu	Phe	Phe	Phe	Phe	Phe	Phe	Val	Val	Val	Val
	35						40					45			
Val	Val	Val	Phe	Val	Phe	Ile	Phe	Phe	Phe	Leu	Leu	Ser	Ser	Ser	Phe
	50						55					60			
Phe	Leu	Leu	Pro	Ser	Ser	Ser	Phe	Phe	Leu	Leu	Leu	Val	Ser	Leu	Cys
	65					70					75				80
Tyr	Pro	Ala	Trp	Ser	Ala	Leu	Arg	Gln	Ser	Gln	Leu	Thr	Ala	Thr	Ser
				85						90				95	

Thr Cys Gln Val

100

<210> 3367

<211> 157

<212> PRT

<213> Homo sapiens

<400> 3367

Met Arg Val Leu Ser Arg Gly Gly Phe Gln Arg Val Lys Gly Arg His

1

5

10

15

Leu Pro Gln Leu Met Pro Gln Ser Ala Ala Pro Gln Val Ala Glu Glu

20

25

30

Gly Leu Phe Pro Gly Met Ile Leu Gln Thr Asn Ile Lys Ala Ile Val

35

40

45

Pro Leu Gly Leu Cys Leu Gly Arg Leu Lys Leu Arg Lys Leu Pro Lys

50

55

60

Val Ala Val Leu Met Ser Ala Ala Leu Lys Pro Lys Asp Met Gln Phe

65

70

75

80

Phe Phe Phe Phe Phe Glu Met Glu Ser Cys Pro Val Ala Arg Leu Glu

85

90

95

Cys Ser Gly Val Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser

100

105

110

Ser Asp Ser Ser Ala Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Thr

115

120

125

Cys His Tyr Thr Gln Ile Val Phe Val Phe Leu Val Glu Met Gly Phe

130

135

140

His His Val Gly Gln Asp Gly Leu Asp Leu Leu Thr Leu

145

150

155

<210> 3368

<211> 342

<212> PRT

<213> Homo sapiens

<400> 3368

Met Asn Pro Ser Glu Met Gln Gly Lys Ala Pro Pro Gln Arg Gln Arg
 1 5 10 15
 Thr Arg Asn Arg Thr Ser Leu Thr Arg Arg Val Asn Lys Met Val Ile
 20 25 30
 Ser Glu Glu Gln Met Lys Leu Pro Ser Thr Lys Lys Ala Gly Pro Pro
 35 40 45
 Thr Trp Ala Gln Leu Lys Lys Leu Thr Gln Leu Ala Glu Lys Ser Leu
 50 55 60
 Glu Asn Thr Arg Val Thr Gln Thr Pro Glu Asn Lys Leu Leu Ala Ala
 65 70 75 80
 Leu Met Ile Val Ser Thr Val Val Ser Leu Pro Met Ser Ala Gly Ala
 85 90 95
 Ala Thr Ala Asn Tyr Thr Tyr Trp Ala Tyr Val Pro Phe Pro Pro Leu
 100 105 110
 Ile Arg Ala Val Thr Trp Ile Asp Asn Pro Ile Glu Val Tyr Val Asn
 115 120 125
 Asn Ser Ala Trp Val Pro Gly Pro Thr Asp Asp Arg Gly Pro Ala Gln
 130 135 140
 Pro Glu Glu Glu Gly Met Met Ile Asn Ile Ser Ile Gly Tyr His Tyr
 145 150 155 160
 Pro Ser Ile Cys Leu Gly Lys Thr Pro Gly Cys Leu Met Pro Thr Ile
 165 170 175
 Gln Asn Trp Leu Val Glu Glu Pro Thr Val Ser Ala Thr Ser Lys Phe
 180 185 190
 Thr Tyr His Met Ile Ser Gly Met Ser Leu Gly Ser Gln Met Asn Asn
 195 200 205
 Leu Gln Asn Ser Ser Tyr Gln Arg Ser Leu Lys Phe Arg Pro Lys Trp
 210 215 220
 Lys Pro Cys Gln Lys Glu Ile Pro Glu Glu Ser Lys Asp Pro Glu Val
 225 230 235 240
 Leu Val Trp Glu Glu Cys Val Ala Asp Thr Ala Val Val Leu Gln Asn
 245 250 255
 Asn Lys Phe Arg Ile Ile Ile Asp Trp Ala Pro Arg Gly Gln Leu Tyr
 260 265 270

Tyr Asp Cys Met Gly Gln Thr His Ser Cys Ser Gln Ala Pro Ser Val
 275 280 285
 Trp Pro Thr Asn Leu Ala Tyr Asp Gly Asp Leu Thr Lys Arg Leu Asp
 290 295 300
 Gln Val Tyr Arg Arg Leu Glu Ser Pro Tyr Ser Trp Lys Trp Gly Glu
 305 310 315 320
 Lys Gly Ile Pro Ser Pro Arg Pro Lys Leu Val Ser Pro Val Val Gly
 325 330 335
 Pro Glu His Pro Glu Leu
 340

<210> 3369

<211> 377

<212> PRT

<213> Homo sapiens

<400> 3369

Met Pro Arg Arg Leu Gln Pro Arg Gly Ala Gly Thr Lys Gly Pro Pro
 1 5 10 15
 Ala Pro Ala Pro Ala Ala Ser Gly Ala Ala Arg Asn Ser His Ser Ala
 20 25 30
 Ala Ser Arg Asp Pro Pro Ala Ser Ala Lys Pro Leu Leu Arg Trp Asp
 35 40 45
 Glu Val Pro Asp Asp Phe Val Glu Cys Phe Ile Leu Ser Gly Tyr Arg
 50 55 60
 Arg Leu Pro Cys Thr Ala Gln Glu Cys Leu Ala Ser Val Leu Lys Pro
 65 70 75 80
 Thr Asn Glu Thr Leu Asn Phe Trp Thr His Phe Ile Pro Leu Leu Leu
 85 90 95
 Phe Leu Ser Lys Phe Cys Arg Leu Phe Phe Leu Ser Gly Gly Asp Val
 100 105 110
 Pro Phe His His Pro Trp Leu Leu Pro Leu Trp Cys Tyr Ala Ser Gly
 115 120 125
 Val Leu Leu Thr Phe Ala Met Ser Cys Thr Ala His Val Phe Ser Cys
 130 135 140

Leu Ser Leu Arg Leu Arg Ala Ala Phe Phe Tyr Leu Asp Tyr Ala Ser
 145 150 155 160
 Ile Ser Tyr Tyr Gly Phe Gly Ser Thr Val Ala Tyr Tyr Tyr Tyr Leu
 165 170 175
 Leu Pro Gly Leu Ser Leu Leu Asp Ala Arg Val Met Thr Pro Tyr Leu
 180 185 190
 Gln Gln Arg Leu Gly Trp His Val Asp Cys Thr Arg Leu Ile Ala Ala
 195 200 205
 Tyr Arg Ala Leu Val Leu Pro Val Ala Phe Val Leu Ala Val Ala Cys
 210 215 220
 Thr Val Ala Cys Cys Lys Ser Arg Thr Asp Trp Cys Thr Tyr Pro Phe
 225 230 235 240
 Ala Leu Arg Thr Phe Val Phe Val Met Pro Leu Ser Met Ala Cys Pro
 245 250 255
 Ile Met Leu Glu Ser Trp Leu Phe Asp Leu Arg Gly Glu Asn Pro Thr
 260 265 270
 Leu Phe Val His Phe Tyr Arg Arg Tyr Phe Trp Leu Val Val Ala Ala
 275 280 285
 Phe Phe Asn Val Ser Lys Ile Pro Glu Arg Ile Gln Pro Gly Leu Phe
 290 295 300
 Asp Ile Ile Gly His Ser His Gln Leu Phe His Ile Phe Thr Phe Leu
 305 310 315 320
 Ser Ile Tyr Asp Gln Val Tyr Tyr Val Glu Glu Gly Leu Arg Gln Phe
 325 330 335
 Leu Gln Ala Pro Pro Ala Ala Pro Thr Phe Ser Gly Thr Val Gly Tyr
 340 345 350
 Met Leu Leu Leu Val Val Cys Leu Gly Leu Val Ile Arg Lys Phe Leu
 355 360 365
 Asn Ser Ser Glu Phe Cys Ser Lys Lys
 370 375

<210> 3370

<211> 193

<212> PRT

<213> Homo sapiens

<400> 3370

Met Pro Ala Ser Ser Leu Leu Ser Ile Leu Pro Pro Arg Tyr Ile Ser
 1 5 10 15
 Asn Leu Pro Thr Phe Leu Glu Leu His Ile Thr Asp Leu Val Gln Ala
 20 25 30
 Ile Ile Ile Ser Leu Leu Gly Pro Thr Lys Thr Leu Ile Thr Val Leu
 35 40 45
 Phe Val Ser Phe Cys Leu Phe Leu Arg Gln Ser Leu Ile Leu Ile Thr
 50 55 60
 Gln Ala Gly Val Gln Trp His Asp Leu Ser Ser Leu Gln Pro Leu Pro
 65 70 75 80
 Pro Met Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Arg Ser Trp Asp
 85 90 95
 Tyr Trp His Ala Pro Pro His Gln Ala Asn Phe Ile Phe Leu Val Glu
 100 105 110
 Met Gly Phe His Pro Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser
 115 120 125
 Gly Asp Pro Pro Ala Ser Ala Ser Arg Ser Ala Gly Ile Thr Gly Met
 130 135 140
 Asn His His Gly Arg Leu Thr Phe Ile Leu Ser Leu Val Leu Leu Glu
 145 150 155 160
 Tyr Ser Gln Ile Ile Phe His Cys Val Tyr Ile Pro His Phe Ala His
 165 170 175
 Trp Phe Leu Met Val Arg Ser Glu Leu Trp Val Asp Leu Ala Ile Gly
 180 185 190
 Arg

<210> 3371

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3371

Met Phe Arg Lys Thr Thr Ser Phe Phe Phe Phe Phe Trp Arg Gln Gly
 1 5 10 15
 Leu Ala Leu Ser Pro Arg Leu Gly Cys Ser Gly Val Ile Leu Ala His
 20 25 30
 Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser
 35 40 45
 Gly Val Ala Gly Ile Thr Gly Ile Cys Asp His Ala Arg Leu Ile Phe
 50 55 60
 Val Phe Ser Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu
 65 70 75 80
 Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Trp Ala Ser Gln Ser Ala
 85 90 95
 Gln Ile Thr Gly Val Ser His Arg Ala Gln Ser Glu Asn Tyr Leu Tyr
 100 105 110
 Tyr Cys Ser Cys Ile Leu Lys Asn Ser Leu Arg Pro
 115 120

<210> 3372

<211> 515

<212> PRT

<213> Homo sapiens

<400> 3372

Met Leu Met His Trp Gly Trp Phe Leu Glu His Asp Leu Asp His Thr
 1 5 10 15
 Val Pro Ala Leu Ser Thr Ala Arg Phe Ser Asp Gly Arg Pro Cys Asn
 20 25 30
 Ser Val Cys Thr Asn Asp Pro Pro Cys Phe Pro Met Asn Thr Arg His
 35 40 45
 Ala Asp Pro Arg Gly Thr His Ala Pro Cys Met Leu Phe Ala Arg Ser
 50 55 60
 Ser Pro Ala Cys Ala Ser Gly Arg Pro Ser Ala Thr Val Asp Ser Val
 65 70 75 80
 Tyr Ala Arg Glu Gln Ile Asn Gln Gln Thr Ala Tyr Ile Asp Gly Ser
 85 90 95

Asn Val Tyr Gly Ser Ser Glu Arg Glu Ser Gln Ala Leu Arg Asp Pro
 100 105 110
 Ser Val Pro Arg Gly Leu Leu Lys Thr Gly Phe Pro Trp Pro Pro Ser
 115 120 125
 Gly Lys Pro Leu Leu Pro Phe Ser Thr Gly Pro Pro Thr Glu Cys Ala
 130 135 140
 Arg Gln Glu Gln Glu Ser Pro Cys Phe Leu Ala Gly Asp His Arg Ala
 145 150 155 160
 Asn Glu His Leu Ala Leu Ala Ala Met His Thr Leu Trp Phe Arg Glu
 165 170 175
 His Asn Arg Val Ala Thr Glu Leu Ser Ala Leu Asn Pro His Trp Glu
 180 185 190
 Gly Asn Thr Val Tyr Gln Glu Ala Arg Lys Ile Val Gly Ala Glu Leu
 195 200 205
 Gln His Ile Thr Tyr Ser His Trp Leu Pro Lys Val Leu Gly Asp Pro
 210 215 220
 Gly Thr Arg Met Leu Arg Gly Tyr Arg Gly Tyr Asn Pro Asn Val Asn
 225 230 235 240
 Ala Gly Ile Ile Asn Ser Phe Ala Thr Ala Ala Phe Arg Phe Gly His
 245 250 255
 Thr Leu Ile Asn Pro Ile Leu Tyr Arg Leu Asn Ala Thr Leu Gly Glu
 260 265 270
 Ile Ser Glu Gly His Leu Pro Phe His Lys Ala Leu Phe Ser Pro Ser
 275 280 285
 Arg Ile Ile Lys Glu Gly Gly Ile Asp Pro Val Leu Arg Gly Leu Phe
 290 295 300
 Gly Val Ala Ala Lys Trp Arg Ala Pro Ser Tyr Leu Leu Ser Pro Glu
 305 310 315 320
 Leu Thr Gln Arg Leu Phe Ser Ala Ala Tyr Ser Ala Ala Val Asp Ser
 325 330 335
 Ala Ala Thr Ile Ile Gln Arg Gly Arg Asp His Gly Ile Pro Pro Tyr
 340 345 350
 Val Asp Phe Arg Val Phe Cys Asn Leu Thr Ser Val Lys Asn Phe Glu
 355 360 365
 Asp Leu Gln Asn Glu Ile Lys Asp Ser Glu Ile Arg Gln Lys Leu Arg
 370 375 380

Lys Leu Tyr Gly Ser Pro Gly Asp Ile Asp Leu Trp Pro Ala Leu Met
 385 390 395 400

Val Glu Asp Leu Ile Pro Gly Thr Arg Val Gly Pro Thr Leu Met Cys
 405 410 415

Leu Phe Val Thr Gln Phe Gln Arg Leu Arg Asp Gly Asp Arg Phe Trp
 420 425 430

Tyr Glu Asn Pro Gly Val Phe Thr Pro Ala Gln Leu Thr Gln Leu Lys
 435 440 445

Gln Ala Ser Leu Ser Arg Val Leu Cys Asp Asn Gly Asp Ser Ile Gln
 450 455 460

Gln Val Gln Ala Asp Val Phe Val Lys Ala Glu Tyr Pro Gln Asp Tyr
 465 470 475 480

Leu Asn Cys Ser Glu Ile Pro Lys Val Asp Leu Arg Val Trp Gln Asp
 485 490 495

Cys Cys Ala Asp Lys Gln Ala Gly Gly Thr Pro Glu Ala Gly Arg Val
 500 505 510

Tyr Arg Cys
 515

<210> 3373

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3373

Met Trp Thr Glu Trp Gly Pro Val Gly Gly Pro Ser Ala Ala Pro Tyr
 1 5 10 15

Gly Gln Asp Pro His Arg Leu Gly Cys Ser Gly Pro Gln Val Ala Leu
 20 25 30

Val Trp Gly Glu Lys Ala Gln Gln Ala Glu Pro Gly Phe Leu Pro His
 35 40 45

Pro His Ile Pro Val Tyr Leu Leu Asp Leu Gln Pro Gln Ile Pro Gly
 50 55 60

Pro Leu Thr Trp Leu Arg Asn Arg Val Arg Ala Gly Val Leu Ser Arg

65 70 75 80
 Gly Trp Ala Arg Glu Pro Gly Ser Gly Arg Gln Ser Trp Cys Pro Gly
 85 90 95
 Gly Gly Gly Pro Gly Arg Leu His Trp Glu Pro Ala Pro Gly Trp Gly
 100 105 110
 Val Pro Gln Ala Tyr Arg Glu Gln Thr Leu Leu Leu Arg Arg Gly Gly
 115 120 125
 Leu Gln Pro Ala Val Leu Ser Leu Arg Val Leu His Leu Leu Asp Ala
 130 135 140

Gly Thr Gln Gln Leu Ile Leu Glu Gln Gly Arg Val Gly Gln Ala Val
 145 150 155 160
 Cys Gly His Gln Ala Gln
 165

<210> 3374

<211> 868

<212> PRT

<213> Homo sapiens

<400> 3374

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
 1 5 10 15
 Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
 20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
 35 40 45
 Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
 50 55 60
 Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Glu
 65 70 75 80
 Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu
 85 90 95
 Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp

100	105	110
Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser		
115	120	125
Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg		
130	135	140
Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile		
145	150	155
Ser Tyr Arg Gly Gly Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala		
165	170	175
Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe		
180	185	190
Leu Ile Thr Asp Gly Tyr Ser Asn Gly Gly Asp Pro Arg Pro Ile Ala		
195	200	205
Ala Ser Leu Arg Asp Ser Gly Val Glu Ile Phe Thr Phe Gly Ile Trp		
210	215	220
Gln Gly Asn Ile Arg Glu Leu Asn Asp Met Ala Ser Thr Pro Lys Glu		
225	230	235
Glu His Cys Tyr Leu Leu His Ser Phe Glu Glu Phe Glu Ala Leu Ala		
245	250	255
Arg Arg Ala Leu His Glu Asp Leu Pro Ser Gly Ser Phe Ile Gln Asp		
260	265	270
Asp Met Val His Cys Ser Tyr Leu Cys Asp Glu Gly Lys Asp Cys Cys		
275	280	285
Asp Arg Met Gly Ser Cys Lys Cys Gly Thr His Thr Gly His Phe Glu		
290	295	300
Cys Ile Cys Glu Lys Gly Tyr Tyr Gly Lys Gly Leu Gln Tyr Glu Cys		
305	310	315
Thr Ala Cys Pro Ser Gly Thr Tyr Lys Pro Glu Gly Ser Pro Gly Gly		
325	330	335
Ile Ser Ser Cys Ile Pro Cys Pro Asp Glu Asn His Thr Ser Pro Pro		
340	345	350
Gly Ser Thr Ser Pro Glu Asp Cys Val Cys Arg Glu Gly Tyr Arg Ala		
355	360	365
Ser Gly Gln Thr Cys Glu Leu Val His Cys Pro Ala Leu Lys Pro Pro		
370	375	380
Glu Asn Gly Tyr Phe Ile Gln Asn Thr Cys Asn Asn His Phe Asn Ala		

385	390	395	400
Ala Cys Gly Val Arg Cys His Pro Gly Phe Asp Leu Val Gly Ser Ser			
	405	410	415
Ile Ile Leu Cys Leu Pro Asn Gly Leu Trp Ser Gly Ser Glu Ser Tyr			
	420	425	430
Cys Arg Val Arg Thr Cys Pro His Leu Arg Gln Pro Lys His Gly His			
	435	440	445
Ile Ser Cys Ser Thr Arg Glu Met Leu Tyr Lys Thr Thr Cys Leu Val			
	450	455	460
Ala Cys Asp Glu Gly Tyr Arg Leu Glu Gly Ser Asp Lys Leu Thr Cys			
465	470	475	480
Gln Gly Asn Ser Gln Trp Asp Gly Pro Glu Pro Arg Cys Val Glu Arg			
	485	490	495
His Cys Ser Thr Phe Gln Met Pro Lys Asp Val Ile Ile Ser Pro His			
	500	505	510
Asn Cys Gly Lys Gln Pro Ala Lys Phe Gly Thr Ile Cys Tyr Val Ser			
	515	520	525
Cys Arg Gln Gly Phe Ile Leu Ser Gly Val Lys Glu Met Leu Arg Cys			
	530	535	540
Thr Thr Ser Gly Lys Trp Asn Val Gly Val Gln Ala Ala Val Cys Lys			
545	550	555	560
Asp Val Glu Ala Pro Gln Ile Asn Cys Pro Lys Asp Ile Glu Ala Lys			
	565	570	575
Ala Leu Glu Gln Gln Asp Ser Ala Asn Val Thr Trp Gln Ile Pro Thr			
	580	585	590
Ala Lys Asp Asn Ser Gly Glu Lys Val Ser Val His Val His Pro Ala			
	595	600	605
Phe Thr Pro Pro Tyr Leu Phe Pro Ile Gly Asp Val Ala Ile Val Tyr			
	610	615	620
Thr Ala Thr Asp Leu Ser Gly Asn Gln Ala Ser Cys Ile Phe His Ile			
625	630	635	640
Lys Val Ile Asp Ala Glu Pro Pro Val Ile Asp Trp Cys Arg Ser Pro			
	645	650	655
Pro Pro Val Gln Val Ser Glu Lys Val His Ala Ala Ser Trp Asp Glu			
	660	665	670
Pro Gln Phe Ser Asp Asn Ser Gly Ala Glu Leu Val Ile Thr Arg Ser			

675	680	685
His Thr Gln Gly Asp Leu Phe Pro Gln Gly Glu Thr Ile Val Gln Tyr		
690	695	700
Thr Ala Thr Asp Pro Ser Gly Asn Asn Arg Thr Cys Asp Ile His Ile		
705	710	715
Val Ile Lys Gly Ser Pro Cys Glu Ile Pro Phe Thr Pro Val Asn Gly		
725	730	735
Asp Phe Ile Cys Thr Pro Asp Asn Thr Gly Val Asn Cys Thr Leu Thr		
740	745	750
Cys Leu Glu Gly Tyr Asp Phe Thr Glu Gly Ser Thr Asp Lys Tyr Tyr		
755	760	765
Cys Ala Tyr Glu Asp Gly Val Trp Lys Pro Thr Tyr Thr Thr Glu Trp		
770	775	780
Pro Asp Cys Ala Lys Lys Arg Phe Ala Asn His Gly Phe Lys Ser Phe		
785	790	795
Glu Met Phe Tyr Lys Ala Ala Arg Cys Asp Asp Thr Asp Leu Met Lys		
805	810	815
Lys Phe Ser Glu Ala Phe Glu Thr Thr Leu Gly Lys Met Val Pro Ser		
820	825	830
Phe Cys Ser Asp Ala Glu Asp Ile Asp Cys Arg Leu Glu Glu Asn Leu		
835	840	845
Thr Lys Lys Tyr Cys Leu Glu Tyr Asn Tyr Asp Tyr Glu Asn Gly Phe		
850	855	860
Ala Ile Gly Asn		
865		

<210> 3375

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3375

Met Ser Val Pro His Ala His Thr Gln Ser Cys Asn Asp Asn Gly Lys
1 5 10 15
Lys Cys Leu Leu Thr Leu Pro Asn Val Pro Ser Gly Gly Lys Leu Pro

20 25 30
 Leu Val Glu Asn His Cys Ser Ile Pro Phe His Gln Leu Arg Asp Pro
 35 40 45
 Pro Pro Ser Leu Arg His Leu Gln Asp Leu Val Leu Phe Trp Ser Gly
 50 55 60
 Pro Leu Gln Thr Leu Asn His Gln Pro Ala Ala Phe Val Val Leu Asp
 65 70 75 80
 Val Ser Ala Asn Phe Ala Gly His Thr Gly Val Pro Lys Glu Val Lys
 85 90 95
 Val Ile Ile Leu Gly Arg Glu Gly Glu Gly Ser Lys Arg Gly Arg Met
 100 105 110
 Arg Phe Leu Gly Arg Gly Gly Val Lys Leu Val Pro Val Leu Cys Tyr
 115 120 125
 Cys Leu Leu Pro Ser Tyr Leu Asn Leu Lys Glu Leu Pro His Leu Gln
 130 135 140
 Gln Asp Leu Leu Gly Ile Gly Val Leu Leu Leu Ala Ile Asn Ser Cys
 145 150 155 160
 Leu Gln Gly Lys Gly Gly
 165

<210> 3376

<211> 559

<212> PRT

<213> Homo sapiens

<400> 3376

Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu
 1 5 10 15
 Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala
 20 25 30
 Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Ala Leu Gly Pro
 35 40 45
 Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
 50 55 60
 Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala

65	70	75	80
Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala			
	85	90	95
Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly			
	100	105	110
Val Ser Ala Ala Pro Ser Val Pro Gly Ala Val Val Pro Gln Pro Gly			
	115	120	125
Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val			
	130	135	140
Tyr Pro Gly Gly Val Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val			
145	150	155	160
Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly			
	165	170	175
Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly			
	180	185	190
Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu			
	195	200	205
Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly			
	210	215	220
Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro			
225	230	235	240
Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys			
	245	250	255
Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val			
	260	265	270
Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly			
	275	280	285
Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala			
	290	295	300
Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly			
305	310	315	320
Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val Pro Gly Ala Gly Val			
	325	330	335
Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala			
	340	345	350
Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala			

355	360	365
Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val		
370	375	380
Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro		
385	390	395
Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro		
405	410	415
Gly Val Gly Gly Ser Arg Ser Arg Arg Cys Pro Gly Ser Trp His Phe		
420	425	430
Pro Arg Ser Ser Gly Ser Ser Cys Arg Gln Gly Cys Gln Val Arg Val		
435	440	445
Ser Ser Trp Cys Arg Arg Gly Ser Trp Ser Trp Arg Gly Ser Trp Cys		
450	455	460
Arg Cys Gly Ser Trp Ser Trp Leu Gly Ser Trp Ser Trp Arg Gly Ser		
465	470	475
Trp Ser Trp Cys Gly Ser Trp Arg Trp Arg Gly Ser Arg His Trp Pro		
485	490	495
Trp Trp Ser Cys Ser Cys Ser Lys Ile Arg Cys Gln Gly Gly Cys Gln		
500	505	510
Ser Pro Ala Pro Ser Cys Ser Trp Ala Trp Cys Trp His Pro Trp Thr		
515	520	525
Trp Ser Trp Cys Arg Arg Pro Trp Thr Trp Ser Trp Cys Trp Cys Ser		
530	535	540
Trp Thr Trp Ser Trp Cys Trp Cys Ser Trp Leu Arg Gly Ser Thr		
545	550	555

<210> 3377

<211> 190

<212> PRT

<213> Homo sapiens

<400> 3377

Met Glu Gly Ser Arg Pro Ala Ala Pro Ala Glu Pro Gly Thr Leu Lys
1 5 10 15
Thr Ser Leu Val Ala Thr Pro Gly Ile Asp Lys Leu Thr Glu Lys Ser

	20		25		30										
Gln	Val	Ser	Glu	Asp	Gly	Thr	Leu	Arg	Ser	Leu	Glu	Pro	Glu	Pro	Gln
	35		40		45										
Gln	Ser	Leu	Glu	Asp	Gly	Ser	Pro	Ala	Lys	Gly	Glu	Pro	Ser	Gln	Ala
	50		55		60										
Trp	Arg	Glu	Gln	Arg	Arg	Pro	Ser	Thr	Ser	Ser	Ala	Ser	Gly	Gln	Trp
	65		70		75										80
Ser	Pro	Thr	Pro	Glu	Trp	Val	Leu	Ser	Trp	Lys	Ser	Lys	Leu	Pro	Leu
		85			90									95	
Gln	Thr	Ile	Met	Arg	Leu	Leu	Gln	Val	Leu	Val	Pro	Gln	Val	Glu	Lys
	100				105								110		
Ile	Cys	Ile	Asp	Lys	Gly	Leu	Thr	Asp	Glu	Ser	Glu	Ile	Leu	Arg	Phe
	115				120								125		
Leu	Gln	His	Gly	Thr	Leu	Val	Gly	Leu	Leu	Pro	Val	Pro	His	Pro	Ile
	130				135							140			
Leu	Ile	Arg	Lys	Tyr	Gln	Ala	Asn	Ser	Gly	Thr	Ala	Met	Trp	Phe	Arg
	145			150					155					160	
Thr	Tyr	Met	Trp	Gly	Val	Ile	Tyr	Leu	Arg	Asn	Val	Asp	Pro	Pro	Val
		165						170						175	
Trp	Tyr	Asp	Thr	Asp	Val	Lys	Leu	Phe	Glu	Ile	Gln	Arg	Val		
	180							185					190		

<210> 3378

<211> 166

<212> PRT

<213> Homo sapiens

<400> 3378

Met	Lys	Pro	His	Lys	Ser	Leu	Ala	Arg	His	Ile	Ile	Ile	Pro	Val	Leu
1			5					10					15		
Leu	Ser	Arg	Lys	Leu	Ser	Glu	Arg	Asp	Tyr	Arg	Asn	Cys	Pro	Gly	His
	20				25				30						
Pro	Ala	Gly	Lys	Trp	Arg	Ile	Gln	Val	Ser	Thr	Pro	Gly	Pro	Ala	Pro
	35				40				45						
Ala	Tyr	Phe	Leu	Phe	Ser	Met	Cys	Glu	Ile	Gln	Cys	Tyr	Pro	Val	Ser

50 55 60
 Glu Ser Ser Val Arg Cys Gly Ser Cys His Pro Phe Leu Trp Pro Cys
 65 70 75 80
 Ser Leu Arg Leu Phe Lys Leu Leu Leu Ser Arg Thr Leu Phe His
 85 90 95
 Ile Ser Gln Pro Leu Asn Cys Leu Asn Gly Pro Arg Cys Leu Arg Pro
 100 105 110
 Ile Thr Ser Gly His Ala Lys Val Gly Phe Ala Val Pro Arg Arg Asp
 115 120 125
 Cys Ser Ala Gln Pro Arg Leu Pro Phe Pro Leu Pro Val Pro Ile Leu
 130 135 140
 Pro Cys Thr Ile Cys Pro Leu His Gly Gln Gly Arg Gly Pro Ser Gly
 145 150 155 160
 Leu Phe Ala Gln Lys Ile
 165

<210> 3379

<211> 538

<212> PRT

<213> Homo sapiens

<400> 3379

Met Gly Leu Leu Leu Leu Val Leu Ile Leu Thr Pro Ser Leu Ala Ala
 1 5 10 15
 Tyr Arg His Pro Asp Phe Pro Leu Leu Glu Lys Ala Gln Gln Leu Leu
 20 25 30
 Gln Ser Thr Gly Ser Pro Tyr Ser Thr Asn Cys Trp Leu Cys Thr Ser
 35 40 45
 Ser Ser Thr Glu Thr Pro Gly Thr Ala Tyr Pro Ala Ser Pro Arg Glu
 50 55 60
 Trp Thr Ser Ile Glu Ala Glu Leu His Ile Ser Tyr Arg Trp Asp Pro
 65 70 75 80
 Asn Leu Lys Gly Leu Met Arg Pro Ala Asn Ser Leu Leu Ser Thr Val
 85 90 95

Lys Gln Asp Phe Pro Asp Ile Arg Gln Lys Pro Pro Ile Phe Gly Pro
 100 105 110
 Ile Phe Thr Asn Ile Asn Leu Met Gly Ile Ala Pro Ile Cys Val Met
 115 120 125
 Ala Lys Arg Lys Asn Gly Thr Asn Val Gly Thr Leu Pro Ser Thr Val
 130 135 140
 Cys Asn Val Thr Phe Thr Val Asp Ser Asn Gln Gln Thr Tyr Gln Thr
 145 150 155 160
 Tyr Thr His Asn Gln Phe Arg His Gln Pro Arg Phe Pro Lys Pro Pro
 165 170 175
 Asn Ile Thr Phe Pro Gln Gly Thr Leu Leu Asp Lys Ser Ser Arg Phe
 180 185 190
 Cys Gln Gly Arg Pro Ser Ser Cys Ser Thr Arg Asn Phe Trp Phe Arg
 195 200 205
 Pro Ala Asp Tyr Asn Gln Cys Leu Gln Ile Ser Asn Leu Ser Ser Thr
 210 215 220
 Ala Glu Trp Val Leu Leu Asp Gln Thr Arg Asn Ser Leu Phe Trp Glu
 225 230 235 240
 Asn Lys Thr Lys Gly Ala Asn Gln Ser Gln Thr Pro Cys Val Gln Val
 245 250 255
 Leu Ala Gly Met Thr Ile Ala Thr Ser Tyr Leu Gly Ile Ser Ala Val
 260 265 270
 Ser Glu Phe Phe Gly Thr Ser Leu Thr Pro Leu Phe His Phe His Ile
 275 280 285
 Ser Thr Cys Leu Lys Thr Gln Gly Ala Phe Tyr Ile Cys Gly Gln Ser
 290 295 300
 Ile His Gln Cys Leu Pro Ser Asn Trp Thr Gly Thr Cys Thr Ile Gly
 305 310 315 320
 Tyr Val Thr Pro Asp Ile Phe Ile Ala Pro Gly Asn Leu Ser Leu Pro
 325 330 335
 Ile Pro Ile Tyr Gly Asn Ser Pro Leu Pro Arg Val Arg Arg Ala Ile
 340 345 350
 His Phe Ile Pro Leu Leu Ala Gly Leu Gly Ile Leu Ala Gly Thr Gly
 355 360 365
 Thr Gly Ile Ala Gly Ile Thr Lys Ala Ser Leu Thr Tyr Ser Gln Leu
 370 375 380

<213> Homo sapiens

Met	Ala	Thr	Thr	Ile	Ser	Lys	Leu	Lys	Val	Asp	Leu	Asp	Phe	Asp	Ser
1				5				10					15		
Ser	Ser	Ile	Ser	Gln	Ile	His	Leu	Val	Leu	Phe	Gly	Phe	Gln	Asp	Ala
			20					25					30		
Val	Asn	Lys	Ile	Leu	Arg	Asn	His	Leu	Ile	Arg	Pro	His	Trp	Met	Phe
		35						40					45		
Ala	Met	Asp	Asn	Ile	Ile	Arg	Arg	Ala	Val	Gln	Ala	Ala	Val	Thr	Ile
	50					55						60			

Leu Ile Pro Glu Leu Arg Ala His Phe Glu Pro Thr Cys Glu Thr Glu
 65 70 75 80
 Gly Val Asp Lys Asp Met Asp Glu Ala Glu Glu Gly Tyr Pro Pro Ala
 85 90 95
 Thr Gly Pro Gly Gln Glu Ala Gln Pro His Gln Gln His Leu Ser Leu
 100 105 110
 Gln Leu Gly Glu Leu Arg Gln Glu Thr Asn Arg Leu Leu Glu His Leu
 115 120 125
 Val Glu Lys Glu Arg Glu Tyr Gln Asn Leu Leu Arg Gln Thr Leu Glu
 130 135 140
 Gln Lys Thr Gln Glu Leu Tyr His Leu Gln Leu Lys Leu Lys Ser Asn
 145 150 155 160
 Cys Ile Thr Glu Asn Pro Ala Gly Pro Tyr Gly Gln Arg Thr Asp Lys
 165 170 175
 Glu Leu Ile Gly Trp Leu Arg Leu Gln Gly Ala Asp Ala Lys Thr Ile
 180 185 190
 Glu Lys Ile Val Glu Glu Gly Tyr Thr Leu Ser Asp Ile Leu Asn Glu
 195 200 205
 Ile Thr Lys Glu Asp Leu Arg Tyr Leu Arg Leu Arg Gly Gly Leu Leu
 210 215 220
 Cys Arg Leu Trp Ser Ala Val Ser Gln Tyr Arg Arg Ala Gln Glu Ala
 225 230 235 240
 Ser Glu Thr Lys Asp Lys Ala
 245

<210> 3381

<211> 275

<212> PRT

<213> Homo sapiens

<400> 3381

Met Glu Glu Val Arg Glu Gly His Ala Leu Gly Gly Gly Met Glu Ala
 1 5 10 15
 Asp Gly Pro Ala Ser Leu Gln Glu Leu Pro Pro Ser Pro Arg Ser Pro
 20 25 30

Ser Pro Pro Pro Ser Pro Pro Pro Leu Pro Ser Pro Pro Ser Leu Pro
 35 40 45
 Ser Pro Ala Ala Pro Glu Ala Pro Glu Leu Pro Glu Pro Ala Gln Pro
 50 55 60
 Ser Glu Ala His Ala Arg Gln Leu Leu Leu Glu Glu Trp Gly Pro Leu
 65 70 75 80
 Ser Gly Gly Leu Glu Leu Pro Gln Arg Leu Thr Trp Lys Leu Leu Leu
 85 90 95
 Leu Arg Arg Pro Leu Tyr Arg Asn Leu Leu Arg Ser Pro Asn Pro Glu
 100 105 110
 Gly Ile Asn Ile Tyr Glu Pro Ala Pro Pro Thr Gly Pro Thr Gln Arg
 115 120 125
 Pro Leu Glu Thr Leu Gly Asn Phe Arg Gly Trp Tyr Ile Arg Thr Glu
 130 135 140
 Lys Leu Gln Gln Asn Gln Ser Trp Thr Val Lys Gln Gln Cys Val Asp
 145 150 155 160
 Leu Leu Ala Glu Gly Leu Trp Glu Glu Leu Leu Asp Asp Glu Gln Pro
 165 170 175
 Ala Ile Thr Val Met Asp Trp Phe Glu Asp Ser Arg Leu Asp Ala Cys
 180 185 190
 Val Tyr Glu Leu His Val Trp Leu Leu Ala Ala Asp Arg Arg Thr Val
 195 200 205
 Ile Ala Gln His His Val Ala Pro Arg Thr Ser Gly Arg Gly Pro Pro
 210 215 220
 Gly Arg Trp Val Gln Val Ser His Val Phe Arg His Tyr Gly Pro Gly
 225 230 235 240
 Val Arg Phe Ile His Phe Leu His Lys Ala Lys Asn Arg Met Glu Pro
 245 250 255
 Gly Gly Leu Arg Arg Thr Arg Val Thr Asp Ser Ser Val Ser Val Gln
 260 265 270
 Leu Arg Glu
 275

<210> 3382

<211> 452

<212> PRT

<213> Homo sapiens

<400> 3382

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Met Lys Val Gln Pro Ser Val Thr Cys Val Ala Ser Trp Gly Gly Ile
  1             5             10             15
Val His Leu Glu Ala Phe Gly Asp Pro Val Ile Val Leu Arg Gly Ala
      20             25             30
Trp Ala Val Pro Arg Val Asp Cys Leu Ile Asp Thr Leu Arg Thr Pro
      35             40             45
Asn Ala Ser Cys Met Arg Lys Gly Thr His Leu Leu Val Pro Cys Leu
      50             55             60
Glu Glu Glu Glu Leu Ala Leu His Arg Arg Arg Leu Asp Met Ser Glu
      65             70             75             80
Ala Leu Pro Cys Pro Gly Lys Glu Thr Pro Thr Pro Gly Cys Arg Leu
      85             90             95
Gly Ala Leu Tyr Trp Ala Cys Val His Asn Asp Pro Thr Gln Leu Gln
      100            105            110
Ala Ile Leu Asp Gly Gly Val Ser Pro Glu Glu Ala Thr Gln Val Asp
      115            120            125
Ser Asn Gly Arg Thr Gly Leu Met Val Ala Cys Phe His Gly Phe Gln
      130            135            140
Ser Val Val Ala Leu Leu Ser His Cys Pro Phe Leu Asp Val Asn Gln
      145            150            155            160
Gln Asp Lys Gly Gly Asp Thr Ala Leu Met Leu Ala Ala Gln Ala Gly
      165            170            175
His Val Pro Leu Val Ser Leu Leu Leu Asn Tyr Tyr Val Gly Leu Asp
      180            185            190
Leu Glu Arg Arg Asp Gln Arg Gly Leu Thr Ala Leu Met Lys Ala Ala
      195            200            205
Met Arg Asn Arg Cys Ala Asp Leu Thr Ala Val Asp Pro Val Arg Gly
      210            215            220
Lys Thr Ala Leu Glu Trp Ala Val Leu Thr Asp Ser Phe Asp Thr Val
      225            230            235            240
Trp Arg Ile Arg Gln Leu Leu Arg Arg Pro Gln Val Glu Gln Leu Ser
      245            250            255

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Arg His Tyr Lys Pro Glu Trp Pro Ala Leu Ser Gly Leu Val Ala Gln
 260 265 270
 Ala Gln Ala Gln Ala Gln Val Ala Pro Ser Leu Leu Glu Arg Leu Gln
 275 280 285
 Ala Thr Leu Ser Leu Pro Phe Ala Pro Ser Pro Gln Glu Gly Gly Val
 290 295 300
 Leu Asp His Leu Val Thr Ala Thr Thr Ser Leu Ala Ser Pro Phe Val
 305 310 315 320
 Thr Thr Ala Cys His Thr Leu Cys Pro Asp His Pro Pro Ser Leu Gly
 325 330 335
 Thr Arg Ser Lys Ser Val Pro Glu Leu Leu Gly Thr Ala Pro Pro Pro
 340 345 350
 Pro Leu Val Pro Gln Ser Pro Pro Gly Ser Pro Gln Arg Ser Pro Trp
 355 360 365
 Val Phe Val Pro Tyr Gln Ser Pro Gln Gly Ile Leu Ser Lys Cys Leu
 370 375 380
 Gln Trp Leu Gln Pro Arg Asp Ser Thr Ser Pro Arg Pro Gln Val Pro
 385 390 395 400
 Lys Ile Leu Leu Ser Lys Ala Ser Ser Ser Ser His Gln Cys Gln Pro
 405 410 415
 Lys Pro Ser Pro Ser Gly His Gln Ser Leu Ala Leu Pro Leu Trp Arg
 420 425 430
 Tyr Gln Glu Leu Arg Ile Glu Lys Arg Lys Gln Glu Glu Glu Ala Arg
 435 440 445
 Met Ala Gln Lys
 450

<210> 3383

<211> 409

<212> PRT

<213> Homo sapiens

<400> 3383

Met Val Glu Leu Phe Ile Phe Leu Phe Leu Leu Gly Glu Thr Pro Phe
 1 5 10 15

Lys Val Val Val Lys Ser Leu Ser Pro Lys Glu Leu Val Arg Ile His
 20 25 30
 Val Pro Lys Pro Leu Asp Arg Asn Asp Gly Thr Phe Leu Met Arg Tyr
 35 40 45
 Arg Met Tyr Glu Thr Val Asp Glu Gly Leu Lys Ile Glu Val Leu Tyr
 50 55 60
 Gly Asp Glu His Val Ala Gln Ser Pro Tyr Ile Leu Lys Gly Pro Val
 65 70 75 80
 Tyr His Glu Tyr Cys Glu Cys Pro Glu Asp Pro Gln Ala Trp Gln Lys
 85 90 95
 Thr Leu Ser Cys Pro Thr Lys Glu Pro Gln Ile Ala Lys Asp Phe Ala
 100 105 110
 Ser Phe Pro Ser Ile Asn Leu Gln Gln Met Leu Lys Glu Val Pro Lys
 115 120 125
 Arg Phe Gly Asp Glu Arg Gly Ala Ile Val His Tyr Thr Ile Leu Asn
 130 135 140
 Asn His Val Tyr Arg Arg Ser Leu Gly Lys Tyr Thr Asp Phe Lys Met
 145 150 155 160
 Phe Ser Asp Glu Ile Leu Leu Ser Leu Thr Arg Lys Val Leu Leu Pro
 165 170 175
 Asp Leu Glu Phe Tyr Val Asn Leu Gly Asp Trp Pro Leu Glu His Arg
 180 185 190
 Lys Val Asn Gly Thr Pro Ser Pro Ile Pro Ile Ile Ser Trp Cys Gly
 195 200 205

 Ser Leu Asp Ser Arg Asp Val Val Leu Pro Thr Tyr Asp Ile Thr His
 210 215 220
 Ser Met Leu Glu Ala Met Arg Gly Val Thr Asn Asp Leu Leu Ser Ile
 225 230 235 240
 Gln Gly Asn Thr Gly Pro Ser Trp Ile Asn Lys Thr Glu Arg Ala Phe
 245 250 255
 Phe Arg Gly Arg Asp Ser Arg Glu Glu Arg Leu Gln Leu Val Gln Leu
 260 265 270
 Ser Lys Glu Asn Pro Gln Leu Leu Asp Ala Gly Ile Thr Gly Tyr Phe
 275 280 285
 Phe Phe Gln Glu Lys Glu Lys Glu Leu Gly Lys Ala Lys Leu Met Gly

290	295	300	
Phe Phe Asp Phe Phe Lys Tyr Lys Tyr Gln Val Asn Val Asp Gly Thr			
305	310	315	320
Val Ala Ala Tyr Arg Tyr Pro Tyr Leu Met Leu Gly Asp Ser Leu Val			
	325	330	335
Leu Lys Gln Asp Ser Pro Tyr Tyr Glu His Phe Tyr Met Ala Leu Glu			
	340	345	350
Pro Trp Lys His Tyr Val Pro Ile Lys Arg Asn Leu Ser Asp Leu Leu			
	355	360	365
Glu Lys Val Lys Trp Ala Lys Ser Phe Thr Leu Ser Pro Arg Leu Glu			
	370	375	380
Cys Ser Gly Thr Ile Ser Thr His Cys Asn Leu Cys Leu Pro Gly Ser			
385	390	395	400
Arg Asn Phe Val Pro Gln Pro Pro Glu			
	405		

<210> 3384

<211> 154

<212> PRT

<213> Homo sapiens

<400> 3384

Met Arg Lys Pro Arg Glu Met Arg Gly Leu Ala Gln Gly Arg Gly Val			
1	5	10	15
His Ser Gln Leu Cys Leu Leu Leu Thr Gln Asn Lys Asp Leu Gly Thr			
	20	25	30
Pro Arg Gly Ser Trp Pro Ser Gly Met Asp Ser Trp His Leu Arg Ala			
	35	40	45
Ser Arg Leu Gln Pro Ser Gly Ser His Gly Cys Pro Lys Ser Ser Gly			
	50	55	60
Pro Leu Leu Gly Ser Trp Leu Gly Cys Leu Ala Leu Pro Asp Arg Arg			
65	70	75	80
Leu Leu Gly Ser Cys Leu Leu Gly Asp Ala Ser Cys Arg Ser Trp Cys			
	85	90	95
Gly Gly Gly Gln Gly Gly Gly Gly Phe Phe Leu Ser Leu Ser Leu Ser			

	100		105		110
Ser Thr Phe	Ser Pro Leu	Pro Arg Gly	Asn Gly Ser	Arg Ile Ser	Phe
115		120		125	
Lys Arg Met	Leu Leu Tyr	Phe Ala Ser	Gly Trp Lys	Val Ala Val	Leu
130		135		140	
Ala Pro Val	Ser Cys Thr	Trp Thr Pro	Val		
145		150			

<210> 3385

<211> 141

<212> PRT

<213> Homo sapiens

<400> 3385

Met Val His	Ala Cys Gln	Val Ser Ser	Glu Cys Ser	Gly Cys Leu	Arg
1		5		10	15
Gly Gly Glu	Glu Gly Met	Pro Trp Leu	Leu Pro Pro	Leu Cys His	His
	20		25		30
Leu Pro Ala	His Leu Gly	Leu Lys Ser	Val Trp Thr	Ala Glu Ser	Val
	35		40		45
Ser Glu Lys	Pro Val Leu	Gly Gln Glu	Leu Gly Asn	Arg Ala Val	Lys
50		55		60	
Glu Val Gln	Ser Gly Glu	Glu Arg Arg	Lys Leu Asp	Leu Gly Thr	Asp
65		70		75	80
Arg Ile Pro	Gln Ala Cys	Ser Thr Ser	Gln Pro Leu	Tyr Ala Pro	Thr
	85		90		95
Leu Gly Leu	Trp Thr Gly	Phe Met Phe	Cys Leu Ile	Ser Val Pro	Glu
	100		105		110
Ala Glu Met	Gly Met Val	Glu Arg Ser	Ser Thr Gln	Val Ala Pro	Gly
	115		120		125
Met Gly Met	Ser Thr Pro	Tyr Ser Pro	Cys Val Ser	Ser	
130		135		140	

<210> 3386

<211> 336

<212> PRT

<213> Homo sapiens

<400> 3386

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Met Val Glu Leu Ala Lys Tyr Ala Lys Gln His Val Pro Glu Gln His
  1             5             10             15
Pro Lys Asp Lys Pro Ser Phe Val Arg Ala Arg Val Lys Lys Leu Leu
      20             25             30
Ala Ala Gly Val Val Ser Ala Met Val Cys Met Val Lys Thr Glu Ser
      35             40             45
Pro Val Leu Thr Ser Ser Cys Arg Glu Leu Leu Ser Arg Val Phe Leu
      50             55             60
Ala Leu Val Glu Glu Val Glu Asp Arg Gly Thr Val Val Ala Gln Gly
      65             70             75             80
Gly Gly Arg Ala Leu Ile Pro Leu Ala Leu Glu Gly Thr Asp Val Gly
      85             90             95
Gln Thr Lys Ala Ala Gln Ala Leu Ala Lys Leu Thr Ile Thr Ser Asn
      100            105            110
Pro Glu Met Thr Phe Pro Gly Glu Arg Ile Tyr Glu Val Val Arg Pro
      115            120            125
Leu Val Ser Leu Leu His Leu Asn Cys Ser Gly Leu Gln Asn Phe Glu
      130            135            140
Ala Leu Met Ala Leu Thr Asn Leu Ala Gly Ile Ser Glu Arg Leu Arg
      145            150            155            160
Gln Lys Ile Leu Lys Glu Lys Ala Val Pro Met Ile Glu Gly Tyr Met
      165            170            175
Phe Glu Glu His Glu Met Ile Arg Arg Ala Ala Thr Glu Cys Met Cys
      180            185            190
Asn Leu Ala Met Ser Lys Glu Val Gln Asp Leu Phe Glu Ala Gln Gly
      195            200            205
Asn Asp Arg Leu Lys Leu Leu Val Leu Tyr Ser Gly Glu Asp Asp Glu
      210            215            220
Leu Leu Gln Arg Ala Ala Ala Gly Gly Leu Ala Met Leu Thr Ser Met
      225            230            235            240
Arg Pro Thr Leu Cys Ser Arg Ile Pro Gln Val Thr Thr His Trp Leu

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245 250 255
 Glu Ile Leu Gln Ala Leu Leu Leu Ser Ser Asn Gln Glu Leu Gln His
 260 265 270
 Arg Gly Ala Val Val Val Leu Asn Met Val Glu Ala Ser Arg Glu Ile
 275 280 285
 Ala Ser Thr Leu Met Glu Ser Glu Met Met Glu Ile Leu Ser Val Leu
 290 295 300
 Ala Lys Gly Asp His Ser Pro Val Thr Arg Ala Ala Ala Ala Cys Leu
 305 310 315 320
 Asp Lys Ala Val Glu Tyr Gly Leu Ile Gln Pro Asn Gln Asp Gly Glu
 325 330 335

<210> 3387

<211> 1088

<212> PRT

<213> Homo sapiens

<400> 3387

Met Ala Asn Gly Thr Ala Asp Val Arg Lys Leu Phe Ile Phe Thr Thr
 1 5 10 15
 Thr Gln Asn Tyr Phe Gly Leu Met Ser Glu Leu Trp Asp Gln Pro Leu
 20 25 30
 Leu Cys Asn Cys Leu Glu Ile Asn Asn Phe Leu Asp Asp Gly Asn Gln
 35 40 45
 Met Leu Leu Arg Val Gln Arg Ser Asp Ala Gly Ile Ser Phe Ser Asn
 50 55 60
 Thr Ile Glu Phe Gly Asp Thr Lys Asp Lys Val Leu Val Phe Phe Lys
 65 70 75 80
 Leu Arg Pro Glu Val Ile Thr Asp Glu Asn Leu His Asp Asn Ile Leu
 85 90 95
 Val Ser Ser Met Leu Glu Ser Pro Ile Ser Ser Leu Tyr Gln Ala Val
 100 105 110
 Arg Gln Val Phe Ala Pro Met Leu Leu Lys Asp Gln Glu Trp Ser Arg
 115 120 125
 Asn Phe Asp Pro Lys Leu Gln Asn Leu Leu Ser Glu Leu Glu Ala Gly

130	135	140	
Leu Gly Ile Val Leu Arg Arg Ser Asp Thr Asn Leu Thr Lys Leu Lys			
145	150	155	160
Phe Lys Glu Asp Asp Thr Arg Gly Ile Leu Thr Pro Ser Asp Glu Phe			
165	170	175	
Gln Phe Trp Ile Glu Gln Ala His Arg Gly Asn Lys Gln Ile Ser Lys			
180	185	190	
Glu Arg Ala Asn Tyr Phe Lys Glu Leu Phe Glu Thr Ile Ala Arg Glu			
195	200	205	
Phe Tyr Asn Leu Asp Ser Leu Ser Leu Leu Glu Val Val Asp Leu Val			
210	215	220	
Glu Thr Thr Gln Asp Val Val Asp Asp Val Trp Arg Gln Thr Glu His			
225	230	235	240
Asp His Tyr Pro Glu Ser Arg Met Leu His Leu Leu Asp Ile Ile Gly			
245	250	255	
Gly Ser Phe Gly Arg Phe Val Gln Lys Lys Leu Gly Thr Leu Asn Leu			
260	265	270	
Trp Glu Asp Pro Tyr Tyr Leu Val Lys Glu Ser Leu Lys Ala Gly Ile			
275	280	285	
Ser Ile Cys Glu Gln Trp Val Ile Val Cys Asn His Leu Thr Gly Gln			
290	295	300	
Val Trp Gln Arg Tyr Val Pro His Pro Trp Lys Asn Glu Lys Tyr Phe			
305	310	315	320
Pro Glu Thr Leu Asp Lys Leu Gly Lys Arg Leu Glu Glu Val Leu Ala			
325	330	335	
Ile Arg Thr Ile His Glu Lys Phe Leu Tyr Phe Leu Pro Ala Ser Glu			
340	345	350	
Glu Lys Ile Ile Cys Leu Thr Arg Val Phe Glu Pro Phe Thr Gly Leu			
355	360	365	
Asn Pro Val Gln Tyr Asn Pro Tyr Thr Glu Pro Leu Trp Lys Ala Ala			
370	375	380	
Val Ser Gln Tyr Glu Lys Ile Ile Ala Pro Ala Glu Gln Lys Ile Ala			
385	390	395	400
Gly Lys Leu Lys Asn Tyr Ile Ser Glu Ile Gln Asp Ser Pro Gln Gln			
405	410	415	
Leu Leu Gln Ala Phe Leu Lys Tyr Lys Glu Leu Val Lys Arg Pro Thr			

420	425	430	
Ile Ser Lys Glu Leu Met Leu Glu Arg Glu Thr Leu Leu Ala Arg Leu			
435	440	445	
Val Asp Ser Ile Lys Asp Phe Arg Leu Asp Phe Glu Asn Arg Cys Arg			
450	455	460	
Gly Ile Pro Gly Asp Ala Ser Gly Pro Leu Ser Gly Lys Asn Leu Ser			
465	470	475	480
Glu Val Val Asn Ser Ile Val Trp Val Arg Gln Leu Glu Leu Lys Val			
485	490	495	
Asp Asp Thr Ile Lys Ile Ala Glu Ala Leu Leu Ser Asp Leu Pro Gly			
500	505	510	
Phe Arg Cys Phe His Gln Ser Ala Lys Asp Leu Leu Asp Gln Leu Lys			
515	520	525	
Leu Tyr Glu Gln Glu Gln Phe Asp Asp Trp Ser Arg Asp Ile Gln Ser			
530	535	540	
Gly Leu Ser Asp Ser Arg Ser Gly Leu Cys Ile Glu Ala Ser Ser Arg			
545	550	555	560
Ile Met Glu Leu Asp Ser Asn Asp Gly Leu Leu Lys Val His Tyr Ser			
565	570	575	
Asp Arg Leu Val Ile Leu Leu Arg Glu Val Arg Gln Leu Ser Ala Leu			
580	585	590	
Gly Phe Val Ile Pro Ala Lys Ile Gln Gln Val Ala Asn Ile Ala Gln			
595	600	605	
Lys Phe Cys Lys Gln Ala Ile Ile Leu Lys Gln Val Ala His Phe Tyr			
610	615	620	
Asn Ser Ile Asp Gln Gln Met Ile Gln Ser Gln Arg Pro Met Met Leu			
625	630	635	640
Gln Ser Ala Leu Ala Phe Glu Gln Ile Ile Lys Asn Ser Lys Ala Gly			
645	650	655	
Ser Gly Gly Lys Ser Gln Ile Thr Trp Asp Asn Pro Lys Glu Leu Glu			
660	665	670	
Gly Tyr Ile Gln Lys Leu Gln Asn Ala Ala Glu Arg Leu Ala Thr Glu			
675	680	685	
Asn Arg Lys Leu Arg Lys Trp His Thr Thr Phe Cys Glu Lys Val Val			
690	695	700	

Val Leu Met Asn Ile Asp Leu Leu Arg Gln Gln Gln Arg Trp Lys Asp
 705 710 715 720
 Gly Leu Gln Glu Leu Arg Thr Gly Leu Ala Thr Val Glu Ala Gln Gly
 725 730 735
 Phe Gln Ala Ser Asp Met His Ala Trp Lys Gln His Trp Asn His Gln
 740 745 750
 Leu Tyr Lys Ala Leu Glu His Gln Tyr Gln Met Gly Leu Glu Ala Leu
 755 760 765
 Asn Glu Asn Leu Pro Glu Ile Asn Ile Asp Leu Thr Tyr Lys Gln Gly
 770 775 780
 Arg Leu Gln Phe Arg Pro Pro Phe Glu Glu Ile Arg Ala Lys Tyr Tyr
 785 790 795 800
 Arg Glu Met Lys Arg Phe Ile Gly Ile Pro Asn Gln Phe Lys Gly Val
 805 810 815
 Gly Glu Ala Gly Asp Glu Ser Ile Phe Ser Ile Met Ile Asp Arg Asn
 820 825 830
 Ala Ser Gly Phe Leu Thr Ile Phe Ser Lys Ala Glu Asp Leu Phe Arg
 835 840 845
 Arg Leu Ser Ala Val Leu His Gln His Lys Glu Trp Ile Val Ile Gly
 850 855 860
 Gln Val Asp Met Glu Ala Leu Val Glu Lys His Leu Phe Thr Val His
 865 870 875 880
 Asp Trp Glu Lys Asn Phe Lys Ala Leu Lys Ile Lys Gly Lys Glu Val
 885 890 895
 Glu Arg Leu Pro Ser Ala Val Lys Val Asp Cys Leu Asn Ile Asn Cys
 900 905 910
 Asn Pro Val Lys Thr Val Ile Asp Asp Leu Ile Gln Lys Leu Phe Asp
 915 920 925
 Leu Leu Val Leu Ser Leu Lys Lys Ser Ile Gln Ala His Leu His Glu
 930 935 940
 Ile Asp Thr Phe Val Thr Glu Ala Met Glu Val Leu Thr Ile Met Pro
 945 950 955 960
 Gln Ser Val Glu Glu Ile Gly Asp Ala Asn Leu Gln Tyr Ser Lys Leu
 965 970 975
 Gln Glu Arg Lys Pro Glu Ile Leu Pro Leu Phe Gln Glu Ala Glu Asp
 980 985 990

Lys Asn Arg Leu Leu Arg Thr Val Ala Gly Gly Gly Leu Glu Thr Ile
 995 1000 1005
 Ser Asn Leu Lys Ala Lys Trp Asp Lys Phe Glu Leu Met Met Glu Ser
 1010 1015 1020
 His Gln Leu Met Ile Lys Asp Gln Ile Glu Val Met Lys Gly Asn Val
 1025 1030 1035 1040
 Lys Ser Arg Leu Gln Ile Tyr Tyr Gln Glu Leu Glu Lys Phe Lys Ala
 1045 1050 1055
 Arg Trp Asp Gln Leu Lys Pro Gly Asp Asp Val Ile Glu Thr Gly Gln
 1060 1065 1070
 His Asn Thr Leu Asp Lys Ser Ala Lys Leu Ile Lys Glu Lys Lys Ile
 1075 1080 1085

<210> 3388

<211> 352

<212> PRT

<213> Homo sapiens

<400> 3388

Met Leu Leu Pro Asp Asp Phe Lys Ala Ser Ser Lys Ile Lys Val Asn
 1 5 10 15
 Asn His Leu Phe His Arg Glu Asn Leu Pro Ser His Phe Lys Phe Lys
 20 25 30
 Glu Tyr Cys Pro Gln Val Phe Arg Asn Leu Arg Asp Arg Phe Gly Ile
 35 40 45
 Asp Asp Gln Asp Tyr Leu Val Thr Leu Thr Arg Asn Pro Pro Ser Glu
 50 55 60
 Ser Glu Gly Ser Asp Gly Arg Phe Leu Ile Ser Tyr Asp Arg Thr Leu
 65 70 75 80
 Val Ile Lys Glu Val Ser Ser Glu Asp Ile Ala Asp Met His Ser Asn
 85 90 95
 Leu Ser Asn Tyr His Gln Tyr Ile Val Lys Cys His Gly Asn Thr Leu
 100 105 110
 Leu Pro Gln Phe Leu Gly Met Tyr Arg Val Ser Val Asp Asn Glu Asp
 115 120 125

Ser Tyr Met Leu Val Met Arg Asn Met Phe Ser His Arg Leu Pro Val
 130 135 140
 His Arg Lys Tyr Asp Leu Lys Gly Ser Leu Val Ser Arg Glu Ala Ser
 145 150 155 160
 Asp Lys Glu Lys Val Lys Glu Leu Pro Thr Leu Lys Asp Met Asp Phe
 165 170 175
 Leu Asn Lys Asn Gln Lys Val Tyr Ile Gly Glu Glu Glu Lys Lys Ile
 180 185 190
 Phe Leu Glu Lys Leu Lys Arg Asp Val Glu Phe Leu Val Gln Leu Lys
 195 200 205
 Ile Met Asp Tyr Ser Leu Leu Leu Gly Ile His Asp Ile Ile Arg Gly
 210 215 220
 Ser Glu Pro Glu Glu Glu Ala Pro Val Arg Glu Asp Glu Ser Glu Val
 225 230 235 240
 Asp Gly Asp Cys Ser Leu Thr Gly Pro Pro Ala Leu Val Gly Ser Tyr
 245 250 255
 Gly Thr Ser Pro Glu Gly Ile Gly Gly Tyr Ile His Ser His Arg Pro
 260 265 270
 Leu Gly Pro Gly Glu Phe Glu Ser Phe Ile Asp Val Tyr Ala Ile Arg
 275 280 285
 Ser Ala Glu Gly Ala Pro Gln Lys Glu Val Tyr Phe Met Gly Leu Ile
 290 295 300
 Asp Ile Leu Thr Gln Tyr Asp Ala Lys Lys Lys Ala Ala His Ala Ala
 305 310 315 320
 Lys Thr Val Lys His Gly Ala Gly Ala Glu Ile Ser Thr Val His Pro
 325 330 335
 Glu Gln Tyr Ala Lys Arg Phe Leu Asp Phe Ile Thr Asn Ile Phe Ala
 340 345 350

<210> 3389

<211> 152

<212> PRT

<213> Homo sapiens

<400> 3389

Met Gln Pro Arg Ser Arg Trp Gln Ala Gln Asn Ser Glu Thr Lys Ser
 1 5 10 15
 His Gly Ala Lys Val Arg His Ala Phe Leu Ala His Leu Cys Val Lys
 20 25 30
 Lys Val Thr Gly Met Leu Thr Thr Gln Val Leu Gly Val Arg Pro Gly
 35 40 45
 Gln Arg Arg Gly Pro Cys Cys Ser Arg Ile Asp Arg Gln Leu Ala Ser
 50 55 60
 Lys Leu Gly Ala Gln Arg Gln Arg Leu Pro Ile His Leu Ser Thr Leu
 65 70 75 80
 Leu Ser His Leu Phe Pro Lys Asp Asp Pro Lys Ala Leu His Ser Ile
 85 90 95
 Phe Gln Arg Asp Met Gly Val Glu Gly Met Glu Val Leu Ser His Leu
 100 105 110
 Leu Leu Leu His Leu Glu Ala Pro Arg Ser Thr Asp Thr Asp His Pro
 115 120 125
 Leu Ser Val Lys Asn Val Leu Phe Gln Glu Ala Pro Gln Leu Arg Leu
 130 135 140
 Lys Glu Thr Ala Pro Pro Pro Gly
 145 150

<210> 3390

<211> 129

<212> PRT

<213> Homo sapiens

<400> 3390

Met Ala Cys Pro Ser Pro Val Ser Arg Arg Leu Ala Arg Ser Thr Leu
 1 5 10 15
 Leu Leu Ile Pro Leu Phe Gly Val His Tyr Ile Met Phe Ala Phe Phe
 20 25 30
 Pro Asp Asn Phe Lys Pro Glu Val Lys Met Val Phe Glu Leu Val Val
 35 40 45
 Gly Ser Phe Gln Gly Phe Val Val Ala Ile Leu Tyr Cys Phe Leu Asn
 50 55 60

Gly Glu Val Gln Ala Glu Leu Arg Arg Lys Trp Arg Arg Trp His Leu
 65 70 75 80
 Gln Gly Val Leu Gly Trp Asn Pro Lys Tyr Arg His Pro Ser Gly Gly
 85 90 95
 Ser Asn Gly Ala Thr Cys Ser Thr Gln Val Ser Met Leu Thr Arg Val
 100 105 110
 Ser Pro Gly Ala Arg Arg Ser Ser Ser Phe Gln Ala Glu Val Ser Leu
 115 120 125
 Val

<210> 3391

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3391

Met Gly Met Lys Arg Glu His Phe Cys Tyr Leu Pro Asn Ser Trp Glu
 1 5 10 15
 Pro Val Asp Ser Leu His Pro His Ala Pro Gly Leu Ala Ala Thr Gly
 20 25 30
 Leu Val Cys Val Ser Ser Met Cys Leu Phe Trp His Ile Ser Lys Val
 35 40 45
 Arg Tyr Ala Val Cys Gly Leu Val Ser Leu Ala Pro Phe Ala Glu His
 50 55 60
 Asn Val Phe Glu Val His Pro Phe Arg Ser Phe Glu Gly Cys Val Ala
 65 70 75 80
 Phe His Gly Val Ala Ile His Ser Cys Ala Tyr Gly Arg Leu Asp Cys
 85 90 95
 Val Gln Phe Leu Ala Thr Leu Asn Lys Ala Ser Val Asn Met Asp Ser
 100 105 110
 Leu Val Leu Glu Arg Met Tyr Val Leu Ser Leu Leu Cys Arg Cys Leu
 115 120 125
 Gly Val Asp Cys Trp Val Met Trp

130

135

<210> 3392

<211> 235

<212> PRT

<213> Homo sapiens

<400> 3392

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Met Arg Pro Leu Ala Gly Gly Leu Leu Lys Val Val Phe Val Val Phe
  1             5             10             15
Ala Ser Leu Cys Ala Trp Tyr Ser Gly Tyr Leu Leu Ala Glu Leu Ile
          20             25             30
Pro Asp Ala Pro Leu Ser Ser Ala Ala Tyr Ser Ile Arg Ser Ile Gly
      35             40             45
Glu Arg Pro Val Leu Lys Ala Pro Val Pro Lys Arg Gln Lys Cys Asp
      50             55             60
His Trp Thr Pro Cys Pro Ser Asp Thr Tyr Ala Tyr Arg Leu Leu Ser
      65             70             75             80
Gly Gly Gly Arg Ser Lys Tyr Ala Lys Ile Cys Phe Glu Asp Asn Leu
          85             90             95
Leu Met Gly Glu Gln Leu Gly Asn Val Ala Arg Gly Ile Asn Ile Ala
          100             105             110
Ile Val Asn Tyr Val Thr Gly Asn Val Thr Ala Thr Arg Cys Phe Asp
          115             120             125
Met Tyr Glu Gly Asp Asn Ser Gly Pro Met Thr Lys Phe Ile Gln Ser
          130             135             140
Ala Ala Pro Lys Ser Leu Leu Phe Met Val Thr Tyr Asp Asp Gly Ser
          145             150             155             160
Thr Arg Leu Asn Asn Asp Ala Lys Asn Ala Ile Glu Ala Leu Gly Ser
          165             170             175
Lys Glu Ile Arg Asn Met Lys Phe Arg Ser Ser Trp Val Phe Ile Ala
          180             185             190
Ala Lys Gly Leu Glu Leu Pro Ser Glu Ile Gln Arg Glu Lys Ile Asn
          195             200             205
His Ser Asp Ala Lys Asn Asn Arg Tyr Ser Gly Trp Pro Ala Glu Ile

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210 215 220
 Gln Ile Glu Gly Cys Ile Pro Lys Glu Arg Ser
 225 230 235

<210> 3393

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3393

Met Cys Ala Gln Asn Tyr Val Val Leu Leu Asp Ser Thr Leu Pro Arg
 1 5 10 15
 Ser Gln Tyr Asp Tyr Ile Leu Pro Gln Val Ser Phe Thr Ala Val Gly
 20 25 30
 Tyr His Lys His Ile Thr Leu Ile Phe Asn Pro Thr Arg Lys Leu Pro
 35 40 45
 Glu Gln Asp Ile Ala Gln Gly Ser Tyr Ile Ala Leu Pro Leu Thr Leu
 50 55 60
 Leu Val Leu Leu Ala Gly Tyr Asn His Asp Lys Leu Ile Pro Leu Leu
 65 70 75 80
 Leu Gln Leu Thr Ser Arg Leu Gln Gly Val Arg Ala Leu Gly Gln Ala
 85 90 95
 Ala Ser Asp Asn Ser Gly Pro Glu Asp Ala Lys Arg Gln Ala Lys Lys
 100 105 110
 Gln Lys Thr Arg Arg Thr
 115

<210> 3394

<211> 548

<212> PRT

<213> Homo sapiens

<400> 3394

Met His Arg Leu Lys Cys Met Val Lys Ala Phe Phe Leu Thr Phe Cys

1	5	10	15
Gln Val Ser Ser Glu Asp Arg Ser Ala Leu Trp Ala Leu Val Thr Phe			
20	25	30	
Tyr Gly Gly Asp Cys Gln Leu Thr Leu Asn Lys Lys Cys Thr His Leu			
35	40	45	
Ile Val Pro Glu Pro Lys Gly Glu Lys Tyr Glu Cys Ala Leu Lys Arg			
50	55	60	
Ala Ser Ile Lys Ile Val Thr Pro Asp Trp Val Leu Asp Cys Val Ser			
65	70	75	80
Glu Lys Thr Lys Lys Asp Glu Ala Phe Tyr His Pro Arg Leu Ile Ile			
85	90	95	
Tyr Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Asn			
100	105	110	
Glu Glu Gln Asp Ser Gln Asn Glu Gly Ser Thr Asp Glu Lys Ser Ser			
115	120	125	
Pro Ala Ser Ser Gln Glu Gly Ser Pro Ser Gly Asp Gln Gln Phe Ser			
130	135	140	
Pro Lys Ser Asn Thr Glu Lys Ser Lys Gly Glu Leu Met Phe Asp Asp			
145	150	155	160
Ser Ser Asp Ser Ser Pro Glu Lys Gln Glu Arg Asn Leu Asn Trp Thr			
165	170	175	
Pro Ala Glu Val Pro Gln Leu Ala Ala Ala Lys Arg Arg Leu Pro Gln			
180	185	190	
Gly Lys Glu Pro Gly Leu Ile Asn Leu Cys Ala Asn Val Pro Pro Val			
195	200	205	
Pro Gly Asn Ile Leu Pro Pro Glu Val Arg Gly Asn Leu Met Ala Ala			
210	215	220	
Gly Gln Asn Leu Gln Ser Ser Glu Arg Ser Glu Met Ile Ala Thr Trp			
225	230	235	240
Ser Pro Ala Val Arg Thr Leu Arg Asn Ile Thr Asn Asn Ala Asp Ile			
245	250	255	
Gln Gln Met Asn Arg Pro Ser Asn Val Ala His Ile Leu Gln Thr Leu			
260	265	270	
Ser Ala Pro Thr Lys Asn Leu Glu Gln Gln Val Asn His Ser Gln Gln			
275	280	285	
Gly His Thr Asn Ala Asn Ala Val Leu Phe Ser Gln Val Lys Val Thr			

290	295	300	
Pro Glu Thr His Met Leu Gln Gln Gln Gln Gln Ala Gln Gln Gln Gln			
305	310	315	320
Gln Gln His Pro Val Leu His Leu Gln Pro Gln Gln Ile Met Gln Leu			
	325	330	335
Gln Gln Gln Gln Gln Gln Gln Ile Ser Gln Gln Pro Tyr Pro Gln Gln			
	340	345	350
Pro Pro His Pro Phe Ser Gln Gln Gln Gln Gln Gln Gln Ala His			
	355	360	365
Pro His Gln Phe Ser Gln Gln Gln Leu Gln Phe Pro Gln Gln Gln Leu			
	370	375	380
His Pro Pro Gln Gln Leu His Arg Pro Gln Gln Gln Leu Gln Pro Phe			
385	390	395	400
Gln Gln Gln His Ala Leu Gln Gln Gln Phe His Gln Leu Gln Gln His			
	405	410	415
Gln Leu Gln Gln Gln Gln Leu Ala Gln Leu Gln Gln Gln His Ser Leu			
	420	425	430
Leu Gln Gln Gln Gln Gln Gln Gln Ile Gln Gln Gln Gln Leu Gln Arg			
	435	440	445
Met His Gln Gln Gln Gln Gln Gln Gln Met Gln Ser Gln Thr Ala Pro			
	450	455	460
His Leu Ser Gln Thr Ser Gln Ala Leu Gln His Gln Val Pro Pro Gln			
465	470	475	480
Gln Pro Pro Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Ser Pro Gln			
	485	490	495
Gln His Gln Leu Phe Gly His Asp Pro Ala Val Glu Ile Pro Glu Glu			
	500	505	510
Gly Phe Leu Leu Gly Cys Val Phe Ala Ile Ala Asp Tyr Pro Glu Gln			
	515	520	525
Met Ser Asp Lys Gln Leu Leu Ala Thr Trp Lys Arg Val Arg Leu Cys			
	530	535	540
Leu Glu Glu Gly			
545			

<210> 3395

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3395

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Met Gly Ser Leu Met Ala Glu Met Val Val Lys Pro Thr Met Ser Leu
  1              5              10              15
Lys Tyr Ser Val Thr Cys Ser Lys Tyr Ser Gly Ser Thr Gly Val Pro
              20              25              30
Val Phe Lys Ala Ser Ala Thr Asp Leu Gly Met Ala Gly Ser Glu Val
              35              40              45
Thr Trp Gly Pro Leu Tyr Leu Ala Gly Leu Gln Leu Pro Ser Gln Pro
              50              55              60
Thr Pro Ser His Trp His Pro Arg Arg Gln His Leu Cys Lys Gln Pro
              65              70              75              80
Val Cys Leu Leu Leu Phe Gln Leu Gln Leu Leu Arg Ala Leu Pro Asp
              85              90              95
Gln Ile Leu Gln Val Thr Arg Val Leu Leu Gln His Pro Lys His Arg
              100             105             110
Val Asn Asp Val Arg Leu Pro Ala Leu Val Asp Val Leu Glu Leu Ala
              115             120             125
Val Glu Gly Ser Trp
              130

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<210> 3396

<211> 548

<212> PRT

<213> Homo sapiens

<400> 3396

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Met Gln Pro Gly Leu Ser Pro Gly Ser Pro Gly Asp Pro Arg Pro Pro
  1              5              10              15
Thr Pro Glu Thr Asp Tyr Pro Glu Ser Leu Thr Ser Tyr Pro Glu Glu
              20              25              30
Asp Tyr Ser Pro Val Gly Ser Phe Gly Glu Pro Gly Pro Thr Ser Pro

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35	40	45
Leu Thr Thr Pro Pro Gly Trp Ser Cys His Val Ser Gln Asp Lys Gln		
50	55	60
Met Leu Tyr Thr Asn His Phe Thr Gln Glu Gln Trp Val Arg Leu Glu		
65	70	75
Asp Pro His Gly Lys Pro Tyr Phe Tyr Asn Pro Glu Asp Ser Ser Val		
85	90	95
Arg Trp Glu Leu Pro Gln Val Pro Val Pro Ala Pro Arg Ser Ile His		
100	105	110
Lys Ser Ser Gln Asp Gly Asp Thr Pro Ala Gln Ala Ser Pro Pro Glu		
115	120	125
Glu Lys Val Pro Ala Glu Leu Asp Glu Val Gly Ser Trp Glu Glu Val		
130	135	140
Ser Pro Ala Thr Ala Ala Val Arg Thr Lys Thr Leu Asp Lys Ala Gly		
145	150	155
Val Leu His Arg Thr Lys Thr Ala Asp Lys Gly Lys Arg Leu Arg Lys		
165	170	175
Lys His Trp Ser Ala Ser Trp Thr Val Leu Glu Gly Gly Val Leu Thr		
180	185	190
Phe Phe Lys Asp Ser Lys Thr Ser Ala Ala Gly Gly Leu Arg Gln Pro		
195	200	205
Ser Lys Phe Ser Thr Pro Glu Tyr Thr Val Glu Leu Arg Gly Ala Thr		
210	215	220
Leu Ser Trp Ala Pro Lys Asp Lys Ser Ser Arg Lys Asn Val Leu Glu		
225	230	235
Leu Arg Ser Arg Asp Gly Ser Glu Tyr Leu Ile Gln His Asp Ser Glu		
245	250	255
Ala Ile Ile Ser Thr Trp His Lys Ala Ile Ala Gln Gly Ile Gln Glu		
260	265	270
Leu Ser Ala Glu Leu Pro Pro Glu Glu Ser Glu Ser Ser Arg Val Asp		
275	280	285
Phe Gly Ser Ser Glu Arg Leu Gly Ser Trp Gln Glu Lys Glu Glu Asp		
290	295	300
Ala Arg Pro Asn Ala Ala Ala Pro Ala Leu Gly Pro Val Gly Leu Glu		
305	310	315
Ser Asp Leu Ser Lys Val Arg His Lys Leu Arg Lys Phe Leu Gln Arg		

	325		330		335										
Arg	Pro	Thr	Leu	Gln	Ser	Leu	Arg	Glu	Lys	Gly	Tyr	Ile	Lys	Asp	Gln
	340		345		350										
Val	Phe	Gly	Cys	Ala	Leu	Ala	Ala	Leu	Cys	Glu	Arg	Glu	Arg	Ser	Arg
	355		360		365										
Val	Pro	Arg	Phe	Val	Gln	Gln	Cys	Ile	Arg	Ala	Val	Glu	Ala	Arg	Gly
	370		375		380										
Leu	Asp	Ile	Asp	Gly	Leu	Tyr	Arg	Ile	Ser	Gly	Asn	Leu	Ala	Thr	Ile
385			390		395										400
Gln	Lys	Leu	Arg	Tyr	Lys	Val	Asp	His	Asp	Glu	Arg	Leu	Asp	Leu	Asp
	405		410		415										
Asp	Gly	Arg	Trp	Glu	Asp	Val	His	Val	Ile	Thr	Gly	Ala	Leu	Lys	Leu
	420		425		430										
Phe	Phe	Arg	Glu	Leu	Pro	Glu	Pro	Leu	Phe	Pro	Phe	Ser	His	Phe	Arg
	435		440		445										
Gln	Phe	Ile	Ala	Ala	Ile	Lys	Leu	Gln	Asp	Gln	Ala	Arg	Arg	Ser	Arg
	450		455		460										
Cys	Val	Arg	Asp	Leu	Val	Arg	Ser	Leu	Pro	Ala	Pro	Asn	His	Asp	Thr
465			470		475										480
Leu	Arg	Met	Leu	Phe	Gln	His	Leu	Cys	Arg	Val	Ile	Glu	His	Gly	Glu
	485		490		495										
Gln	Asn	Arg	Met	Ser	Val	Gln	Ser	Val	Ala	Ile	Val	Phe	Gly	Pro	Thr
	500		505		510										
Leu	Leu	Arg	Pro	Glu	Val	Glu	Glu	Thr	Ser	Met	Pro	Met	Thr	Met	Val
	515		520		525										
Phe	Gln	Asn	Gln	Val	Val	Glu	Leu	Ile	Leu	Gln	Gln	Cys	Ala	Asp	Ile
	530		535		540										
Phe	Pro	Pro	His												
545															

<210> 3397

<211> 118

<212> PRT

<213> Homo sapiens

<400> 3397

Met Met Asp Ala Ser Lys Glu Leu Gln Val Leu His Ile Asp Phe Leu
 1 5 10 15
 Asn Gln Asp Asn Ala Val Ser His His Thr Trp Glu Phe Gln Thr Ser
 20 25 30
 Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu
 35 40 45
 Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
 50 55 60
 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
 65 70 75 80
 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
 85 90 95
 Ser Gly Lys Glu Val Ser Thr His Trp Ala Gly Gly Trp Ala Gly Trp
 100 105 110
 Leu Leu Ala Glu Cys Ser
 115

<210> 3398

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3398

Met Pro Gly Ala Glu Met Trp Thr Glu Gly Asp Phe Ser Ala Ser Leu
 1 5 10 15
 Ala Gly Ala Cys Ser Lys Leu Ala Asp Ala Leu Cys Ala Cys Trp Ala
 20 25 30
 Arg Ser Pro Ser Ser Gly Glu Ala Leu Gly Leu Glu Gln Leu Gly Leu
 35 40 45
 Ser Trp Leu Leu Thr Pro Glu Pro Gly Ser Leu Leu Val Leu His Tyr
 50 55 60
 Leu Ala Thr Ser Ala Gln Gly Pro Asp Lys Arg Tyr Cys Leu Arg Ala
 65 70 75 80
 Thr Glu Asp Thr Gly Ala Gln Ser Trp Thr Thr Gly Pro Gly Pro Gly

85 90 95
 Arg Thr Arg Arg Ser Arg Pro Ser Ala Ala Leu Trp Gly Arg Ser Pro
 100 105 110
 Trp Gly Cys
 115

<210> 3399

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3399

Met Leu Gln Phe Pro Gly Phe Leu Val Leu Ile Ile Pro Pro Arg Ser
 1 5 10 15
 Cys Leu Leu Gln Arg Ser Thr Val Gln Gln Glu Ala Glu Pro Met Pro
 20 25 30
 Leu Arg Gly Trp Arg Tyr Cys Ile Leu Pro Lys Ile Pro Ala Ser His
 35 40 45
 Ser Asn Asn Glu Pro Asn Ser Ala Glu Glu Leu Trp Ala Val Val Ser
 50 55 60
 Lys Thr Gln Ala Tyr Ser Leu Pro Pro Leu Pro Phe Leu Phe Arg Pro
 65 70 75 80
 Val Leu Thr Lys Arg Ile Leu Ala Leu Gln Ile Val Leu Tyr Phe Asp
 85 90 95
 Ala Phe Arg Ile Asn Ile
 100

<210> 3400

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3400

Met Glu Val Val Val Ile His Ser Ser Pro Met Ser Arg Arg Arg Tyr

1	5	10	15
Ser Phe Leu His Leu Trp Glu Cys Gly Ser Gly Trp Leu Pro Val Asp			
20	25	30	
Ser Pro Pro Arg Thr Gly Leu Gly His Arg Cys Cys Leu Ala Gln Gly			
35	40	45	
His Val Pro Ser Pro Arg Ser Ser His Thr Lys Trp Leu Ser Cys Val			
50	55	60	
His Gln Gly Ser Thr Thr Leu Gly Ala Thr Thr Ala Pro Gly Leu Pro			
65	70	75	80
Val Gly Trp Leu Gly Pro Leu Leu Cys Met His His Ser Pro Thr Ser			
85	90	95	
Leu Gly Pro Ile Leu Lys Ala Val Leu His Lys Ala Phe Thr Cys Asn			
100	105	110	
Leu Arg Ala Ser Glu Ser Val Pro Trp Gly Ser			
115	120		

<210> 3401

<211> 443

<212> PRT

<213> Homo sapiens

<400> 3401

Met Gly Ser Pro Ala His Arg Pro Ala Leu Leu Leu Leu Pro Pro			
1	5	10	15
Leu Leu Leu Leu Leu Arg Val Pro Pro Ser Arg Ser Phe Pro Asp			
20	25	30	
Thr Pro Trp Cys Ser Pro Ile Lys Val Lys Tyr Gly Asp Val Tyr Cys			
35	40	45	
Arg Ala Pro Gln Gly Gly Tyr Tyr Lys Thr Ala Leu Gly Thr Arg Cys			
50	55	60	
Asp Ile Arg Cys Gln Lys Gly Tyr Glu Leu His Gly Ser Ser Leu Leu			
65	70	75	80
Ile Cys Gln Ser Asn Lys Arg Trp Ser Asp Lys Val Ile Cys Lys Gln			
85	90	95	

Lys Arg Cys Pro Thr Leu Ala Met Pro Ala Asn Gly Gly Phe Lys Cys
 100 105 110
 Val Asp Gly Ala Tyr Phe Asn Ser Arg Cys Glu Tyr Tyr Cys Ser Pro
 115 120 125
 Gly Tyr Thr Leu Lys Gly Glu Arg Thr Val Thr Cys Met Asp Asn Lys
 130 135 140
 Ala Trp Ser Gly Arg Pro Ala Ser Cys Val Asp Met Glu Pro Pro Arg
 145 150 155 160
 Ile Lys Cys Pro Ser Val Lys Glu Arg Ile Ala Glu Pro Asn Lys Leu
 165 170 175
 Thr Val Arg Val Ser Trp Glu Thr Pro Glu Gly Arg Asp Thr Ala Asp
 180 185 190
 Gly Ile Leu Thr Asp Val Ile Leu Lys Gly Leu Pro Pro Gly Ser Asn
 195 200 205
 Phe Pro Glu Gly Asp His Lys Ile Gln Tyr Thr Val His Asp Arg Ala
 210 215 220
 Glu Asn Lys Gly Thr Cys Lys Phe Arg Val Lys Val Arg Val Lys Arg
 225 230 235 240
 Cys Gly Lys Leu Asn Ala Pro Glu Asn Gly Tyr Met Lys Cys Ser Ser
 245 250 255
 Asp Gly Asp Asn Tyr Gly Ala Thr Cys Glu Phe Ser Cys Ile Gly Gly
 260 265 270
 Tyr Glu Leu Gln Gly Ser Pro Ala Arg Val Cys Gln Ser Asn Leu Ala
 275 280 285
 Trp Ser Gly Thr Glu Pro Thr Cys Ala Ala Met Asn Val Asn Val Gly
 290 295 300
 Val Arg Thr Ala Ala Ala Leu Leu Asp Gln Phe Tyr Glu Lys Arg Arg
 305 310 315 320
 Leu Leu Ile Val Ser Thr Pro Thr Ala Arg Asn Leu Leu Tyr Arg Leu
 325 330 335
 Gln Leu Gly Met Leu Gln Gln Ala Gln Cys Gly Leu Asp Leu Arg His
 340 345 350
 Ile Thr Val Val Glu Leu Val Gly Val Phe Pro Thr Leu Ile Gly Arg
 355 360 365
 Ile Gly Ala Lys Ile Met Pro Pro Ala Leu Ala Leu Gln Leu Arg Leu
 370 375 380

Leu Leu Arg Ile Pro Leu Tyr Ser Phe Ser Met Val Leu Val Asp Lys
 385 390 395 400
 His Gly Met Asp Lys Glu Arg Tyr Val Ser Leu Val Met Pro Val Ala
 405 410 415
 Leu Phe Asn Leu Ile Asp Thr Phe Pro Leu Arg Lys Glu Glu Met Val
 420 425 430
 Leu Gln Ala Glu Met Ser Gln Thr Cys Asn Thr
 435 440

<210> 3402

<211> 555

<212> PRT

<213> Homo sapiens

<400> 3402

Met Gly Lys Trp Arg Pro Gly Gln Gly His Thr Thr Gly Ser Val Lys
 1 5 10 15
 Pro Leu Ser Arg Ser Asp Ala Met Glu Leu Asp Leu Ser Pro Pro His
 20 25 30
 Leu Ser Ser Ser Pro Glu Asp Leu Cys Pro Ala Pro Gly Thr Pro Pro
 35 40 45
 Gly Thr Pro Arg Pro Pro Asp Thr Pro Leu Pro Glu Glu Val Lys Arg
 50 55 60
 Ser Gln Pro Leu Leu Ile Pro Thr Thr Gly Arg Lys Leu Arg Glu Glu
 65 70 75 80
 Glu Arg Arg Ala Thr Ser Leu Pro Ser Ile Pro Asn Pro Phe Pro Glu
 85 90 95
 Leu Cys Ser Pro Pro Ser Gln Ser Pro Ile Leu Gly Gly Pro Ser Ser
 100 105 110
 Ala Arg Gly Leu Leu Pro Arg Asp Ala Ser Arg Pro His Val Val Lys
 115 120 125
 Val Tyr Ser Glu Asp Gly Ala Cys Arg Ser Val Glu Val Ala Thr Gly
 130 135 140
 Ala Thr Ala Arg His Val Cys Glu Met Leu Val Gln Arg Ala His Ala
 145 150 155 160

Leu Ser Asp Glu Thr Trp Gly Leu Val Glu Cys His Pro His Leu Ala
 165 170 175
 Leu Glu Arg Gly Leu Glu Asp His Glu Ser Val Val Glu Val Gln Ala
 180 185 190
 Ala Trp Pro Val Gly Gly Asp Ser Arg Phe Val Phe Arg Lys Asn Phe
 195 200 205
 Ala Lys Tyr Glu Leu Phe Lys Ser Ser Pro His Ser Leu Phe Pro Glu
 210 215 220
 Lys Met Val Ser Ser Cys Leu Asp Ala His Thr Gly Ile Ser His Glu
 225 230 235 240
 Asp Leu Ile Gln Asn Phe Leu Asn Ala Gly Ser Phe Pro Glu Ile Gln
 245 250 255
 Gly Phe Leu Gln Leu Arg Gly Ser Gly Arg Lys Leu Trp Lys Arg Phe
 260 265 270
 Phe Cys Phe Leu Arg Arg Ser Gly Leu Tyr Tyr Ser Thr Lys Gly Thr
 275 280 285
 Ser Lys Asp Pro Arg His Leu Gln Tyr Val Ala Asp Val Asn Glu Ser
 290 295 300
 Asn Val Tyr Val Val Thr Gln Gly Arg Lys Leu Tyr Gly Met Pro Thr
 305 310 315 320
 Asp Phe Gly Phe Cys Val Lys Pro Asn Lys Leu Arg Asn Gly His Lys
 325 330 335
 Gly Leu Arg Ile Phe Cys Ser Glu Asp Glu Gln Ser Arg Thr Cys Trp
 340 345 350
 Leu Ala Ala Phe Arg Leu Phe Lys Tyr Gly Val Gln Leu Tyr Lys Asn
 355 360 365
 Tyr Gln Gln Ala Gln Ser Arg His Leu His Pro Ser Cys Leu Gly Ser
 370 375 380
 Pro Pro Leu Arg Ser Ala Ser Asp Asn Thr Leu Val Ala Met Asp Phe
 385 390 395 400
 Ser Gly His Ala Gly Arg Val Ile Glu Asn Pro Arg Glu Ala Leu Ser
 405 410 415
 Val Ala Leu Glu Glu Ala Gln Ala Trp Arg Lys Lys Thr Asn His Arg
 420 425 430
 Leu Ser Leu Pro Met Pro Ala Ser Gly Thr Ser Leu Ser Ala Ala Ile
 435 440 445

His Arg Thr Gln Leu Trp Phe His Gly Arg Ile Ser Arg Glu Glu Ser
 450 455 460
 Gln Arg Leu Ile Gly Gln Gln Gly Leu Val Asp Gly Leu Phe Leu Val
 465 470 475 480
 Arg Glu Ser Gln Arg Asn Pro Gln Gly Phe Val Leu Ser Leu Cys His
 485 490 495
 Leu Gln Lys Val Lys His Tyr Leu Ile Leu Pro Ser Glu Glu Glu Gly
 500 505 510
 Arg Leu Tyr Phe Ser Met Asp Asp Gly Gln Thr Arg Phe Thr Asp Leu
 515 520 525
 Leu Gln Leu Val Glu Phe His Gln Leu Asn Arg Gly Ile Leu Pro Cys
 530 535 540
 Leu Leu Arg His Cys Cys Thr Arg Val Ala Leu
 545 550 555

<210> 3403

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3403

Met Lys Ser Arg Leu Arg Arg Ser Gln Met Glu Met Arg Asp Leu Leu
 1 5 10 15
 Gly Pro Gly Val Lys Val Thr Phe Val Arg Thr Leu Trp Leu Glu Thr
 20 25 30
 Leu Cys Pro Cys Pro Arg Asn Leu Trp Asn Phe Glu Leu Glu Ser Glu
 35 40 45
 Asp Leu Gly Tyr Leu Ala Glu Glu Ile Ser Lys Gln Gln Ser Val Gln
 50 55 60
 Asp Val Ala Trp Leu Leu Leu Val Val Cys Ala His Ile Cys Glu Gln
 65 70 75 80
 Arg His Asp Lys Lys Leu Glu Leu Ile Phe Lys Lys Glu Ala Glu Cys
 85 90 95
 Lys Ser Leu Glu Asn Leu Gln Pro Gly His Val Val Glu Lys Lys Lys
 100 105 110

Asn His Phe Leu Glu Arg Asn Ser Ser
 115 120

<210> 3404

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3404

Met Pro Leu His Thr Leu Leu Ile Phe Pro Val Met Ser Ser Gly Ala
 1 5 10 15
 Leu Leu Leu Ala Val Ala Tyr Lys Ala Ser Trp Ser Gly Ser Lys Ala
 20 25 30
 Trp Gln Ser Leu Ser Gln Gly Lys Leu Gln Ala Ala Asn Ser Pro His
 35 40 45
 Gly Ser Ser Pro Ser Leu Pro Ala Gln Ser Pro Gly Gln Gly Pro Pro
 50 55 60
 Arg Lys Ala Leu Val Glu Asn Leu Cys Met Lys Ala Val Asn Gln Ser
 65 70 75 80
 Ile Gly Lys Pro Gly Cys Leu Gln Leu Gly Gly Gln Thr Gly Trp Arg
 85 90 95
 Arg Gly Glu Glu Glu Arg Gly Leu Pro Ala Leu Ser Pro Thr
 100 105 110

<210> 3405

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3405

Met Thr Arg Gly Thr Gln Gly Leu Pro Met Thr Met Gly Pro Arg Gly
 1 5 10 15
 Arg His Leu Ala Gln Gly Pro Val Leu Glu Thr Asp Asp Pro Arg Arg
 20 25 30

Arg Arg Gln Gly Arg Arg Glu Ala Gly Arg Ala Gly Met Val Ser Gln
 35 40 45
 Ala Glu Gly Arg Thr Arg Thr Arg Met Glu Leu Gly Asn Asp Pro Gly
 50 55 60
 Val Phe Gly Gly Cys Arg Trp Val Arg Met Ala Val Gln Gly Gly Lys
 65 70 75 80
 Gly Cys Val Ala Gly Glu Gln Pro Gly Glu Ala Gln Thr Leu Leu Lys
 85 90 95
 Arg Cys Leu Leu Cys Arg Pro Pro His Pro Leu Pro Ala Pro Ser Gly
 100 105 110
 Ala Pro Ala Pro Pro Cys Ser Ala
 115 120

<210> 3406

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3406

Met Arg Glu Val Gly Glu Ala Arg Glu Ala His Gly Ala Pro Ala Gln
 1 5 10 15
 Ala Pro His Thr Pro Ser Val Val Thr Val Ala His Glu Val Asn Ser
 20 25 30
 Pro Pro Pro Leu Gly Glu Lys Glu Ala Ala Trp Ala Ala Thr Cys Ser
 35 40 45
 Pro Ala Leu Pro Pro Pro Thr Ala Leu Met Asp Pro Ser Leu Pro Gly
 50 55 60
 Gly His Cys Phe Val Gly Phe Ser Pro Phe Val Gly Lys Gly Arg Cys
 65 70 75 80
 Pro Ala Gly Leu Gly Leu Val Arg Glu Glu Ser Arg Ala Leu Glu Arg
 85 90 95
 Gly Ala Gln His
 100

<210> 3407

<211> 258

<212> PRT

<213> Homo sapiens

<400> 3407

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Met Ala Ser Leu Leu Phe Leu Val Val Asn Leu Thr Cys Ala Met Leu
  1              5              10              15
Val His Gly Asp Val Pro Glu Asn Gln Leu Lys Trp Thr Val Phe Val
      20              25              30
Arg Ala Leu Ile Asn Asp Ser Leu Phe Ile Leu Cys Ala Ile Ser Leu
      35              40              45
Val Cys Tyr Ile Cys Lys Ile Thr Lys Met Ser Ser Ala Asn Val Tyr
      50              55              60
Leu Glu Ser Lys Gly Met Ser Leu Cys Gln Thr Val Val Val Gly Ser
      65              70              75              80
Val Val Ile Leu Leu Tyr Ser Ser Arg Ala Cys Tyr Asn Leu Val Val
      85              90              95
Val Thr Ile Ser Gln Asp Thr Leu Glu Ser Pro Phe Asn Tyr Gly Trp
      100             105             110
Asp Asn Leu Ser Asp Lys Ala His Val Glu Asp Ile Ser Gly Glu Glu
      115             120             125
Tyr Ile Val Phe Gly Met Val Leu Phe Leu Trp Glu His Val Pro Ala
      130             135             140
Trp Ser Val Val Leu Phe Phe Arg Ala Gln Arg Leu Asn Gln Asn Leu
      145             150             155             160
Ala Pro Ala Gly Met Ile Asn Ser His Ser Tyr Ser Ser Arg Ala Tyr
      165             170             175
Phe Phe Asp Asn Pro Arg Arg Tyr Asp Ser Asp Asp Asp Leu Pro Arg
      180             185             190
Leu Gly Ser Ser Arg Glu Gly Ser Leu Pro Asn Ser Gln Ser Leu Gly
      195             200             205
Trp Tyr Gly Thr Met Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr
      210             215             220
Pro His Leu Asn Gly Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr
      225             230             235             240

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Cys Ser Asn Leu Asp Leu Asn Asn His His Ser Leu Tyr Val Thr Pro
 245 250 255

Gln Asn

<210> 3408

<211> 199

<212> PRT

<213> Homo sapiens

<400> 3408

Met Ser Ala Thr Leu Arg Glu Arg Leu Arg Lys Thr Arg Phe Ser Phe
 1 5 10 15
 Asn Ser Ser Tyr Asn Val Val Lys Arg Leu Lys Val Glu Ser Glu Glu
 20 25 30
 Asn Asp Gln Thr Phe Ser Glu Lys Pro Ala Ser Ser Thr Glu Glu Asn
 35 40 45
 Cys Leu Glu Phe Gln Glu Ser Phe Lys His Ile Asp Ser Glu Phe Glu
 50 55 60
 Glu Asn Thr Asn Leu Lys Asn Thr Leu Lys Asn Leu Asn Val Cys Glu
 65 70 75 80
 Ser Gln Ser Leu Asp Ser Gly Ser Cys Ser Ala Leu Gln Asn Glu Phe
 85 90 95
 Val Ser Glu Lys Leu Pro Lys Gln Arg Leu Asn Ala Glu Lys Ala Lys
 100 105 110
 Leu Val Lys Gln Val Gln Glu Lys Glu Asp Leu Leu Arg Arg Leu Lys
 115 120 125
 Leu Val Lys Met Tyr Arg Ser Lys Asn Asp Leu Ser Gln Leu Gln Leu
 130 135 140
 Leu Ile Lys Lys Trp Arg Ser Cys Ser Gln Leu Leu Leu Tyr Glu Leu
 145 150 155 160
 Gln Ser Ala Val Ser Glu Glu Asn Lys Lys Leu Ser Leu Thr Gln Leu
 165 170 175
 Ile Asp His Tyr Gly Leu Asp Asp Arg Leu Leu His Tyr Asn Arg Ser
 180 185 190

Glu Glu Glu Phe Ile Asp Val

195

<210> 3409

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3409

Met Pro Lys Gly Gly Cys Pro Lys Ala Pro Gln Gln Glu Glu Leu Pro
 1 5 10 15
 Leu Ser Ser Asp Met Val Glu Lys Gln Thr Gly Lys Lys Asp Lys Asp
 20 25 30
 Lys Val Ser Leu Thr Lys Thr Pro Lys Leu Glu Arg Gly Asp Gly Gly
 35 40 45
 Lys Glu Val Arg Glu Arg Ala Ser Lys Arg Lys Leu Pro Phe Thr Ala
 50 55 60
 Gly Ala Asn Gly Glu Gln Lys Asp Ser Asp Thr Gly Pro Pro Gly Ser
 65 70 75 80
 Cys Leu Ser Trp Gly Ser His Glu Gly Ala Leu Val Arg Ser Ala Met
 85 90 95
 Gly Arg Ser Cys Leu Pro Ser Ala Arg Gly Cys Phe Phe Gly Thr Arg
 100 105 110
 Gly Lys Ile Met Ile Phe Leu Phe Cys Phe Asp Leu
 115 120

<210> 3410

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3410

Met Pro Phe Ala Glu Asp Lys Thr Tyr Lys Tyr Ile Cys Arg Asn Phe
 1 5 10 15

Ser	Asn	Phe	Cys	Asn	Val	Asp	Val	Val	Glu	Ile	Leu	Pro	Tyr	Leu	Pro	
			20						25						30	
Cys	Leu	Thr	Ala	Arg	Asp	Gln	Asp	Arg	Leu	Arg	Ala	Thr	Cys	Thr	Leu	
			35						40						45	
Ser	Gly	Asn	Arg	Asp	Thr	Leu	Trp	His	Leu	Phe	Asn	Thr	Leu	Gln	Leu	
			50						55						60	
Pro	Thr	Trp	Ala	Gly	Glu	Glu	Thr	Pro	Gly	Gly	Gln	Ser	Ser	Gly	Arg	
65						70						75			80	
Gly	Leu	Asp	Phe	Ser	Ser	Leu	Thr	Ser	Gly	Ala	Val	Trp	Leu	Trp	Gln	
			85						90						95	
Met	Ser	Asp	Phe	Trp	Ser	Cys	Phe	Ser	Thr	Trp	Thr	Val	Ser	Ile	Trp	
			100						105						110	
Leu	Ile	Leu	His	Trp	Val	Leu	Leu	Arg	Leu	Asn	Leu	Gln	Val	Phe	Ala	
			115						120						125	
Lys	Cys	Leu	Ala	Gln	Ser	Lys	Trp	Pro	Leu	Leu	Leu	Pro	Ser	Leu	Ser	
130						135						140				
Cys	Pro	Thr	Trp													
145																

<210> 3411

<211> 527

<212> PRT

<213> Homo sapiens

<400> 3411

Met	Leu	Ala	Lys	Pro	His	Gln	Arg	Leu	Thr	Lys	Tyr	Pro	Leu	Leu	
1					5				10					15	
Lys	Ser	Val	Leu	Arg	Lys	Thr	Glu	Glu	Pro	Arg	Ala	Lys	Glu	Ala	Val
			20					25					30		
Val	Ala	Met	Ile	Gly	Ser	Val	Glu	Arg	Phe	Ile	His	His	Val	Asn	Ala
		35						40				45			
Cys	Met	Arg	Gln	Arg	Gln	Glu	Arg	Gln	Arg	Leu	Ala	Ala	Val	Val	Ser
	50						55				60				
Arg	Ile	Asp	Ala	Tyr	Glu	Val	Val	Glu	Ser	Ser	Ser	Asp	Glu	Val	Asp
65					70					75					80

Lys Leu Leu Lys Glu Phe Leu His Leu Asp Leu Thr Ala Pro Ile Pro
 85 90 95
 Gly Ala Ser Pro Glu Glu Thr Arg Gln Leu Leu Leu Glu Gly Ser Leu
 100 105 110
 Arg Met Lys Glu Gly Lys Asp Ser Lys Met Asp Val Tyr Cys Phe Leu
 115 120 125
 Phe Thr Asp Leu Leu Leu Val Thr Lys Ala Val Lys Lys Ala Glu Arg
 130 135 140
 Thr Arg Val Ile Arg Pro Pro Leu Leu Val Asp Lys Ile Val Cys Arg
 145 150 155 160
 Glu Leu Arg Asp Pro Gly Ser Phe Leu Leu Ile Tyr Leu Asn Glu Phe
 165 170 175
 His Ser Ala Val Gly Ala Tyr Thr Phe Gln Ala Ser Gly Gln Ala Leu
 180 185 190
 Cys Arg Gly Trp Val Asp Thr Ile Tyr Asn Ala Gln Asn Gln Leu Gln
 195 200 205
 Gln Leu Arg Ala Gln Glu Pro Pro Gly Ser Gln Gln Pro Leu Gln Ser
 210 215 220
 Leu Glu Glu Glu Glu Asp Glu Gln Glu Glu Glu Glu Glu Glu Glu
 225 230 235 240
 Glu Glu Glu Glu Gly Glu Asp Ser Gly Thr Ser Ala Ala Ser Ser Pro
 245 250 255
 Thr Ile Met Arg Lys Ser Ser Gly Ser Pro Asp Ser Gln His Cys Ala
 260 265 270
 Ser Asp Gly Ser Thr Glu Thr Leu Ala Met Val Val Val Glu Pro Gly
 275 280 285
 Asp Thr Leu Ser Ser Pro Glu Phe Asp Ser Gly Pro Phe Ser Ser Gln
 290 295 300
 Ser Asp Glu Thr Ser Leu Ser Thr Thr Ala Ser Ser Ala Thr Pro Thr
 305 310 315 320
 Ser Glu Leu Leu Pro Leu Gly Pro Val Asp Gly Arg Ser Cys Ser Met
 325 330 335
 Asp Ser Ala Tyr Gly Thr Leu Ser Pro Thr Ser Leu Gln Asp Phe Val
 340 345 350
 Ala Pro Gly Pro Met Ala Glu Leu Val Pro Arg Ala Pro Glu Ser Pro
 355 360 365

Arg Val Pro Ser Pro Pro Pro Ser Pro Arg Leu Arg Arg Arg Thr Pro
 370 375 380
 Val Gln Leu Leu Ser Cys Pro Pro His Leu Leu Lys Ser Lys Ser Glu
 385 390 395 400
 Ala Ser Leu Leu Gln Leu Leu Ala Gly Ala Gly Thr His Gly Thr Pro
 405 410 415
 Ser Ala Pro Ser Arg Ser Leu Ser Glu Leu Cys Leu Ala Val Pro Ala
 420 425 430
 Pro Gly Ile Arg Thr Gln Gly Ser Pro Gln Glu Ala Gly Pro Ser Trp
 435 440 445
 Asp Cys Arg Gly Ala Pro Ser Pro Gly Ser Gly Pro Gly Leu Val Gly
 450 455 460
 Cys Leu Ala Gly Glu Pro Ala Gly Ser His Arg Lys Arg Cys Gly Asp
 465 470 475 480
 Leu Pro Ser Gly Ala Ser Pro Arg Val Gln Pro Glu Pro Pro Pro Gly
 485 490 495
 Val Ser Ala Gln His Arg Lys Leu Thr Leu Ala Gln Leu Tyr Arg Ile
 500 505 510
 Arg Thr Thr Leu Leu Leu Asn Ser Thr Leu Thr Ala Ser Glu Val
 515 520 525

<210> 3412

<211> 632

<212> PRT

<213> Homo sapiens

<400> 3412

Met Trp Leu Lys Pro Glu Glu Val Leu Leu Lys Asn Ala Leu Lys Leu
 1 5 10 15
 Trp Leu Met Glu Arg Ser Asn Asp Tyr Phe Val Leu Gln Arg Arg Arg
 20 25 30
 Gly Tyr Gly Glu Glu Gly Gly Gly Gly Leu Thr Gly Leu Leu Val Gly
 35 40 45
 Thr Leu Asp Ser Val Leu Asp Ser Thr Ala Lys Val Ala Pro Phe Arg
 50 55 60

Ile Leu His Gln Thr Pro Asp Ser Gln Val Tyr Leu Ser Ile Ala Cys
 65 70 75 80
 Gly Ala Asn Arg Glu Glu Ile Thr Lys His Trp Asp Trp Leu Glu Gln
 85 90 95
 Asn Ile Met Lys Thr Leu Ser Val Phe Asp Ser Asn Glu Asp Ile Thr
 100 105 110
 Asn Phe Val Gln Gly Lys Ile Arg Gly Leu Ile Ala Glu Glu Gly Lys
 115 120 125
 His Cys Phe Ala Lys Glu Asp Asp Pro Glu Lys Phe Arg Glu Ala Leu
 130 135 140
 Leu Lys Phe Glu Lys Cys Phe Gly Leu Pro Glu Lys Glu Lys Leu Val
 145 150 155 160
 Thr Tyr Tyr Ser Cys Ser Tyr Trp Lys Gly Arg Val Pro Cys Gln Gly
 165 170 175
 Trp Leu Tyr Leu Ser Thr Asn Phe Leu Ser Phe Tyr Ser Phe Leu Leu
 180 185 190
 Gly Ser Glu Ile Lys Leu Ile Ile Ser Trp Asp Glu Val Ser Lys Leu
 195 200 205
 Glu Lys Thr Ser Asn Val Ile Leu Thr Glu Ser Ile His Val Cys Ser
 210 215 220
 Gln Gly Glu Asn His Tyr Phe Ser Met Phe Leu His Ile Asn Gln Thr
 225 230 235 240
 Tyr Leu Leu Met Glu Gln Leu Ala Asn Tyr Ala Ile Arg Arg Leu Phe
 245 250 255
 Asp Lys Glu Thr Phe Asp Asn Asp Pro Val Leu Tyr Asn Pro Leu Gln
 260 265 270
 Ile Thr Lys Arg Gly Leu Glu Asn Arg Ala His Ser Glu Gln Phe Asn
 275 280 285
 Ala Phe Phe Arg Leu Pro Lys Gly Glu Ser Leu Lys Glu Val His Glu
 290 295 300
 Cys Phe Leu Trp Val Pro Phe Ser His Phe Asn Thr His Gly Lys Met
 305 310 315 320
 Cys Ile Ser Glu Asn Tyr Ile Cys Phe Ala Ser Gln Asp Gly Asn Gln
 325 330 335
 Cys Ser Val Ile Ile Pro Leu Arg Glu Val Leu Ala Ile Asp Lys Thr

340	345	350
Asn Asp Ser Ser Lys Ser Val Ile Ile Ser Ile Lys Gly Lys Thr Ala		
355	360	365
Phe Arg Phe His Glu Val Lys Asp Phe Glu Gln Leu Val Ala Lys Leu		
370	375	380
Arg Leu Arg Cys Gly Ala Ala Ser Thr Gln Tyr His Asp Ile Ser Thr		
385	390	395
Glu Leu Ala Ile Ser Ser Glu Ser Thr Glu Pro Ser Asp Asn Phe Glu		
405	410	415
Val Gln Ser Leu Thr Ser Gln Arg Glu Cys Ser Lys Thr Val Asn Thr		
420	425	430
Glu Ala Leu Met Thr Val Phe His Pro Gln Asn Leu Glu Thr Leu Asn		
435	440	445
Ser Lys Met Leu Lys Glu Lys Met Lys Glu Gln Ser Trp Lys Ile Leu		
450	455	460
Phe Ala Glu Cys Gly Arg Gly Val Ser Met Phe Arg Thr Lys Lys Thr		
465	470	475
Arg Asp Leu Val Val Arg Gly Ile Pro Glu Thr Leu Arg Gly Glu Leu		
485	490	495
Trp Met Leu Phe Ser Gly Val Val Asn Asp Met Ala Thr Asn Pro Asp		
500	505	510
Tyr Tyr Thr Glu Val Val Glu Gln Ser Leu Gly Thr Cys Asn Leu Ala		
515	520	525
Thr Glu Glu Ile Glu Arg Asp Leu Arg Arg Ser Leu Pro Glu His Pro		
530	535	540
Ala Phe Gln Ser Asp Thr Gly Ile Ser Ala Leu Arg Arg Val Leu Thr		
545	550	555
Ala Tyr Ala Tyr Arg Asn Pro Lys Ile Gly Tyr Cys Gln Ala Met Asn		
565	570	575
Ile Leu Thr Ser Val Leu Leu Leu Tyr Ala Lys Glu Glu Glu Ala Phe		
580	585	590
Trp Leu Leu Val Ala Val Cys Glu Arg Met Leu Pro Asp Tyr Phe Asn		
595	600	605
Arg Arg Ile Ile Gly Ser Asp Asp Phe Met Pro Leu Val Arg Ile Gln		
610	615	620
Gly Gln Cys Val Ile Gly Glu Lys		

625

630

<210> 3413

<211> 186

<212> PRT

<213> Homo sapiens

<400> 3413

Met Gly Leu Met Met Val Gly Val Leu Ile Gly Thr Phe Ile Ala His
 1 5 10 15
 Val Val Cys Lys Arg Leu Leu Thr Ala Trp Val Ala Ala Arg Ile Gln
 20 25 30
 Ser Ser Glu Lys Leu Ser Ala Val Ile Arg Val Val Glu Gly Gly Ser
 35 40 45
 Gly Leu Lys Val Val Ala Leu Ala Arg Leu Thr Pro Ile Pro Phe Gly
 50 55 60
 Leu Gln Asn Ala Val Phe Ser Ile Thr Asp Leu Ser Leu Pro Asn Tyr
 65 70 75 80
 Leu Met Ala Ser Ser Val Gly Leu Leu Pro Thr Gln Leu Leu Asn Ser
 85 90 95
 Tyr Leu Gly Thr Thr Leu Arg Thr Met Glu Asp Val Ile Ala Glu Gln
 100 105 110
 Ser Val Ser Gly Tyr Phe Val Phe Cys Leu Gln Ile Ile Ile Ser Ile
 115 120 125
 Gly Leu Met Phe Tyr Val Val His Arg Ala Gln Val Glu Leu Asn Ala
 130 135 140
 Ala Ile Val Ala Cys Glu Met Glu Leu Lys Ser Ser Leu Val Lys Gly
 145 150 155 160
 Asn Gln Pro Asn Thr Ser Gly Ser Ser Phe Tyr Asn Lys Arg Thr Leu
 165 170 175
 Thr Phe Ser Gly Gly Gly Ile Asn Val Val
 180 185

<210> 3414

<211> 156

<212> PRT

<213> Homo sapiens

<400> 3414

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Met Gln Val Pro Pro Leu Tyr Ser Ala Leu Lys Lys Asp Gly Gln Arg
 1             5             10            15
Leu Ser Thr Leu Met Lys Arg Gly Glu Val Val Glu Ala Lys Pro Ala
      20             25            30
Arg Pro Val Thr Val Tyr Ser Ile Ser Leu Gln Lys Phe Gln Pro Pro
      35             40            45
Phe Phe Thr Leu Asp Val Glu Cys Gly Gly Gly Phe Tyr Ile Arg Ser
      50             55            60
Leu Val Ser Asp Ile Gly Lys Glu Leu Ser Ser Cys Ala Asn Val Leu
      65             70            75            80
Glu Leu Thr Arg Thr Lys Gln Gly Pro Phe Thr Leu Glu Glu His Ala
      85             90            95
Leu Pro Glu Asp Lys Trp Thr Ile Asp Asp Ile Ala Gln Ser Leu Glu
      100            105            110
His Cys Ser Ser Leu Phe Pro Ala Glu Leu Ala Leu Lys Lys Ser Lys
      115            120            125
Pro Glu Ser Asn Glu Gln Val Leu Ser Cys Glu Tyr Ile Thr Leu Asn
      130            135            140
Glu Pro Lys Arg Glu Asp Asp Val Ile Lys Thr Cys
145             150             155

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<210> 3415

<211> 373

<212> PRT

<213> Homo sapiens

<400> 3415

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Met Arg Val Cys Ser Tyr Glu Cys Leu Pro Trp Glu Glu Ala Met Arg
 1             5             10            15
Thr Glu Leu Gln Leu Glu Ser Arg Ser Ser Gly Ser Glu Arg Glu Glu

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				20				25				30			
Arg	Gln	Arg	Leu	Glu	Thr	Ile	Leu	Ser	Leu	Cys	Ala	Glu	Tyr	Thr	Lys
35				40				45							
Pro	Asp	Ser	Arg	Leu	Ser	Thr	Gly	Thr	Thr	Val	Glu	Asp	Val	Gln	Lys
50				55				60							
Ile	Asn	Lys	Glu	Leu	Glu	Lys	Leu	Gln	Leu	Ser	Asp	Glu	Glu	Ser	Val
65				70				75				80			
Phe	Glu	Glu	Ala	Leu	Met	Ser	Pro	Asp	Thr	Arg	Tyr	Arg	Cys	His	Arg
85				90				95							
Lys	Asp	Ser	Leu	Pro	Asp	Ala	Asp	Leu	Ala	Ser	Cys	Gly	Ser	Phe	Ser
100				105				110							
Gln	Ser	Ser	Ala	Ser	Phe	Phe	Thr	Pro	Arg	Ser	Thr	Arg	Asn	Asp	Glu
115				120				125							
Leu	Leu	Ser	Asp	Leu	Thr	Arg	Thr	Pro	Pro	Pro	Pro	Ser	Ser	Thr	Phe
130				135				140							
Pro	Lys	Ala	Ser	Ser	Glu	Ser	Ser	Tyr	Leu	Ser	Ile	Leu	Pro	Lys	Thr
145				150				155				160			
Pro	Glu	Gly	Ile	Ser	Glu	Glu	Gln	Arg	Ser	Gln	Glu	Leu	Ala	Ala	Met
165				170				175							
Glu	Glu	Thr	Arg	Ile	Val	Ile	Leu	Asn	Asn	Leu	Glu	Glu	Leu	Lys	Gln
180				185				190							
Lys	Ile	Lys	Asp	Ile	Asn	Asp	Gln	Met	Asp	Glu	Ser	Phe	Arg	Glu	Leu
195				200				205							
Asp	Met	Glu	Cys	Ala	Leu	Leu	Asp	Gly	Glu	Gln	Lys	Ser	Glu	Thr	Thr
210				215				220							
Glu	Leu	Met	Lys	Glu	Lys	Glu	Ile	Leu	Asp	His	Leu	Asn	Arg	Lys	Ile
225				230				235				240			
Ala	Glu	Leu	Glu	Lys	Asn	Ile	Val	Gly	Glu	Lys	Thr	Lys	Glu	Lys	Val
245				250				255							
Lys	Leu	Asp	Ala	Glu	Arg	Glu	Lys	Leu	Glu	Arg	Leu	Gln	Glu	Leu	Tyr
260				265				270							
Ser	Glu	Gln	Lys	Thr	Gln	Leu	Asp	Asn	Cys	Pro	Glu	Ser	Met	Arg	Glu
275				280				285							
Gln	Leu	Gln	Gln	Gln	Leu	Lys	Arg	Asp	Ala	Asp	Leu	Leu	Asp	Val	Glu
290				295				300							
Ser	Lys	His	Phe	Glu	Asp	Leu	Glu	Phe	Gln	Gln	Leu	Glu	His	Glu	Ser

305 310 315 320
 Arg Leu Asp Glu Glu Lys Glu Asn Leu Thr Gln Gln Leu Leu Arg Glu
 325 330 335
 Val Ala Glu Tyr Gln Arg Asn Ile Val Ser Arg Lys Glu Lys Ile Ser
 340 345 350
 Ala Leu Lys Lys Gln Ala Asn His Ile Val Gln Gln Ala Gln Arg Glu
 355 360 365
 Gln Asp His Phe Val
 370

<210> 3416

<211> 847

<212> PRT

<213> Homo sapiens

<400> 3416

Met Asn Ala Ser Asn Asp Ile Thr Met Glu Asn Val Val His Glu Leu
 1 5 10 15
 Glu Leu Tyr Asn Thr Gly Tyr Tyr Leu Gly Met Phe Met Asn Ser Phe
 20 25 30
 Ala Val Phe Gln Glu Cys Gly Leu Trp Val Leu Thr Asp Ala Asn Leu
 35 40 45
 Thr Lys Asp Tyr Ile Asp Gly Val Tyr Asp Asn Ala Glu Tyr Ala Glu
 50 55 60
 Arg Phe Met Glu Glu Asn Glu Gly His Ile Val Asp Ile His Asp Phe
 65 70 75 80
 Ser Leu Gly Ser Ser Pro His Val Arg Lys His Phe Pro Glu Thr Trp
 85 90 95
 Ile Trp Leu Asp Thr Asn Met Gly Ser Arg Ile Tyr Gln Glu Phe Glu
 100 105 110
 Val Thr Val Pro Asp Ser Ile Thr Ser Trp Val Ala Thr Gly Phe Val
 115 120 125
 Ile Ser Glu Asp Leu Gly Leu Gly Leu Thr Thr Thr Pro Val Glu Leu
 130 135 140
 Gln Ala Phe Gln Pro Phe Phe Ile Phe Leu Asn Leu Pro Tyr Ser Val

145	150	155	160
Ile Arg Gly Glu Glu Phe Ala Leu Glu Ile Thr Ile Phe Asn Tyr Leu			
165	170	175	
Lys Asp Ala Thr Glu Val Lys Val Ile Ile Glu Lys Ser Asp Lys Phe			
180	185	190	
Asp Ile Leu Met Thr Ser Ser Glu Ile Asn Ala Thr Gly His Gln Gln			
195	200	205	
Thr Leu Leu Val Pro Ser Glu Asp Gly Ala Thr Val Leu Phe Pro Ile			
210	215	220	
Arg Pro Thr His Leu Gly Glu Ile Pro Ile Thr Val Thr Ala Leu Ser			
225	230	235	240
Pro Thr Ala Ser Asp Ala Ile Thr Gln Met Ile Leu Val Lys Ala Glu			
245	250	255	
Gly Ile Glu Lys Ser Tyr Ser Gln Ser Ile Leu Leu Asp Leu Thr Asp			
260	265	270	
Asn Arg Leu Gln Ser Thr Leu Lys Thr Leu Ser Phe Ser Phe Pro Pro			
275	280	285	
Asn Thr Val Thr Gly Ser Glu Arg Val Gln Ile Thr Ala Ile Gly Asp			
290	295	300	
Val Leu Gly Pro Ser Ile Asn Gly Leu Ala Ser Leu Ile Arg Met Pro			
305	310	315	320
Tyr Gly Cys Gly Glu Gln Asn Met Ile Asn Phe Ala Pro Asn Ile Tyr			
325	330	335	
Ile Leu Asp Tyr Leu Thr Lys Lys Lys Gln Leu Thr Asp Asn Leu Lys			
340	345	350	
Glu Lys Ala Leu Ser Phe Met Arg Gln Gly Tyr Gln Arg Glu Leu Leu			
355	360	365	
Tyr Gln Arg Glu Asp Gly Ser Phe Ser Ala Phe Gly Asn Tyr Asp Pro			
370	375	380	
Ser Gly Ser Thr Trp Leu Ser Ala Phe Val Leu Arg Cys Phe Leu Glu			
385	390	395	400
Ala Asp Pro Tyr Ile Asp Ile Asp Gln Asn Val Leu His Arg Thr Tyr			
405	410	415	
Thr Trp Leu Lys Gly His Gln Lys Ser Asn Gly Glu Phe Trp Asp Pro			
420	425	430	

Gly Arg Val Ile His Ser Glu Leu Gln Gly Gly Asn Lys Ser Pro Val
 435 440 445
 Thr Leu Thr Ala Tyr Ile Val Thr Ser Leu Leu Gly Tyr Arg Lys Tyr
 450 455 460
 Gln Pro Asn Ile Asp Val Gln Glu Ser Ile His Phe Leu Glu Ser Glu
 465 470 475 480
 Phe Ser Arg Gly Ile Ser Asp Asn Tyr Thr Leu Ala Leu Ile Thr Tyr
 485 490 495
 Ala Leu Ser Ser Val Gly Ser Pro Lys Ala Lys Glu Ala Leu Asn Met
 500 505 510
 Leu Thr Trp Arg Ala Glu Gln Glu Gly Gly Met Gln Phe Trp Val Ser
 515 520 525
 Ser Glu Ser Lys Leu Ser Asp Ser Trp Gln Pro Arg Ser Leu Asp Ile
 530 535 540
 Glu Val Ala Ala Tyr Ala Leu Leu Ser His Phe Leu Gln Phe Gln Thr
 545 550 555 560
 Ser Glu Gly Ile Pro Ile Met Arg Trp Leu Ser Arg Gln Arg Asn Ser
 565 570 575
 Leu Gly Gly Phe Ala Ser Thr Gln Asp Thr Thr Val Ala Leu Lys Ala
 580 585 590
 Leu Ser Glu Phe Ala Ala Leu Met Asn Thr Glu Arg Thr Asn Ile Gln
 595 600 605
 Val Thr Val Thr Gly Pro Ser Ser Pro Ser Pro Val Lys Phe Leu Ile
 610 615 620
 Asp Thr His Asn Arg Leu Leu Leu Gln Thr Ala Glu Leu Ala Val Val
 625 630 635 640
 Gln Pro Thr Ala Val Asn Ile Ser Ala Asn Gly Phe Gly Phe Ala Ile
 645 650 655
 Cys Gln Leu Asn Val Val Tyr Asn Val Lys Ala Ser Gly Ser Ser Arg
 660 665 670
 Arg Arg Arg Ser Ile Gln Asn Gln Glu Ala Phe Asp Leu Asp Val Ala
 675 680 685
 Val Lys Glu Asn Lys Asp Asp Leu Asn His Val Asp Leu Asn Val Cys
 690 695 700
 Thr Ser Phe Ser Gly Pro Gly Arg Ser Gly Met Ala Leu Met Glu Val
 705 710 715 720

Asn Leu Leu Ser Gly Phe Met Val Pro Ser Glu Ala Ile Ser Leu Ser
 725 730 735
 Glu Thr Val Lys Lys Val Glu Tyr Asp His Gly Lys Leu Asn Leu Tyr
 740 745 750
 Leu Asp Ser Val Asn Glu Thr Gln Phe Cys Val Asn Ile Pro Ala Val
 755 760 765
 Arg Asn Phe Lys Val Ser Asn Thr Gln Asp Ala Ser Val Ser Ile Val
 770 775 780
 Asp Tyr Tyr Glu Pro Arg Arg Gln Ala Val Arg Ser Tyr Asn Ser Glu
 785 790 795 800
 Val Lys Leu Ser Ser Cys Asp Leu Cys Ser Asp Val Gln Gly Cys Arg
 805 810 815
 Pro Cys Glu Asn Gly Ala Ser Gly Ser His His His Ser Ser Val Ile
 820 825 830
 Phe Ile Phe Cys Phe Lys Leu Leu Tyr Phe Met Glu Leu Trp Leu
 835 840 845

<210> 3417

<211> 653

<212> PRT

<213> Homo sapiens

<400> 3417

Met Val Glu Leu Val Asn Ile Glu Pro Val Cys Val Arg Gly Gly Leu
 1 5 10 15
 Tyr Glu Val Asp Val Thr Gln Gly Glu Cys Tyr Pro Val Tyr Trp Asn
 20 25 30
 Gln Ala Asp Lys Ile Pro Val Met Arg Gly Gln Trp Phe Ile Asp Gly
 35 40 45
 Thr Trp Gln Pro Leu Glu Glu Glu Glu Ser Asn Leu Ile Glu Gln Glu
 50 55 60
 His Leu Asn Cys Phe Arg Gly Gln Gln Met Gln Glu Asn Phe Asp Ile
 65 70 75 80
 Glu Val Ser Lys Ser Ile Asp Gly Lys Asp Ala Val His Ser Phe Lys
 85 90 95

Leu Ser Arg Asn His Val Asp Trp His Ser Val Asp Glu Val Tyr Leu			
100	105	110	
Tyr Ser Asp Ala Thr Thr Ser Lys Ile Ala Arg Thr Val Thr Gln Lys			
115	120	125	
Leu Gly Phe Ser Lys Ala Ser Ser Ser Gly Thr Arg Leu His Arg Gly			
130	135	140	
Tyr Val Glu Glu Ala Thr Leu Glu Asp Lys Pro Ser Gln Thr Thr His			
145	150	155	160
Ile Val Phe Val Val His Gly Ile Gly Gln Lys Met Asp Gln Gly Arg			
165	170	175	
Ile Ile Lys Asn Thr Ala Met Met Arg Glu Ala Ala Arg Lys Ile Glu			
180	185	190	
Glu Arg His Phe Ser Asn His Ala Thr His Val Glu Phe Leu Pro Val			
195	200	205	
Glu Trp Arg Ser Lys Leu Thr Leu Asp Gly Asp Thr Val Asp Ser Ile			
210	215	220	
Thr Pro Asp Lys Val Arg Gly Leu Arg Asp Met Leu Asn Ser Ser Ala			
225	230	235	240
Met Asp Ile Met Tyr Tyr Thr Ser Pro Leu Tyr Arg Asp Glu Leu Val			
245	250	255	
Lys Gly Leu Gln Gln Glu Leu Asn Arg Leu Tyr Ser Leu Phe Cys Ser			
260	265	270	
Arg Asn Pro Asp Phe Glu Glu Lys Gly Gly Lys Val Ser Ile Val Ser			
275	280	285	
His Ser Leu Gly Cys Val Ile Thr Tyr Asp Ile Met Thr Gly Trp Asn			
290	295	300	
Pro Val Arg Leu Tyr Glu Gln Leu Leu Gln Lys Glu Glu Glu Leu Pro			
305	310	315	320
Asp Glu Arg Trp Met Ser Tyr Glu Glu Arg His Leu Leu Asp Glu Leu			
325	330	335	
Tyr Ile Thr Lys Arg Arg Leu Lys Glu Ile Glu Glu Arg Leu His Gly			
340	345	350	
Leu Lys Ala Ser Ser Met Thr Gln Thr Pro Ala Leu Lys Phe Lys Val			
355	360	365	
Glu Asn Phe Phe Cys Met Gly Ser Pro Leu Ala Val Phe Leu Ala Leu			
370	375	380	

Arg Gly Ile Arg Pro Gly Asn Thr Gly Ser Gln Asp His Ile Leu Pro
 385 390 395 400
 Arg Glu Ile Cys Asn Arg Leu Leu Asn Ile Phe His Pro Thr Asp Pro
 405 410 415
 Val Ala Tyr Arg Leu Glu Pro Leu Ile Leu Lys His Tyr Ser Asn Ile
 420 425 430
 Ser Pro Val Gln Ile His Trp Tyr Asn Thr Ser Asn Pro Leu Pro Tyr
 435 440 445
 Glu His Met Lys Pro Ser Phe Leu Asn Pro Ala Lys Glu Pro Thr Ser
 450 455 460
 Val Ser Glu Asn Glu Gly Ile Ser Thr Ile Pro Ser Pro Val Thr Ser
 465 470 475 480
 Pro Val Leu Ser Arg Arg His Tyr Gly Glu Ser Ile Thr Asn Ile Gly
 485 490 495
 Lys Ala Ser Ile Leu Gly Ala Ala Ser Ile Gly Lys Gly Leu Gly Gly
 500 505 510
 Met Leu Phe Ser Arg Phe Gly Arg Ser Ser Thr Thr Gln Ser Ser Glu
 515 520 525
 Thr Ser Lys Asp Ser Met Glu Asp Glu Lys Lys Pro Val Ala Ser Pro
 530 535 540
 Ser Ala Thr Thr Val Gly Thr Gln Thr Leu Pro His Ser Ser Ser Gly
 545 550 555 560
 Phe Leu Asp Ser Ala Tyr Phe Arg Leu Gln Glu Ser Phe Phe Asn Leu
 565 570 575
 Pro Gln Leu Leu Phe Pro Glu Asn Val Met Gln Asn Lys Asp Asn Ala
 580 585 590
 Leu Val Glu Leu Asp His Arg Ile Asp Phe Glu Leu Arg Glu Gly Leu
 595 600 605
 Val Glu Ser Arg Tyr Trp Ser Ala Val Thr Ser His Thr Ala Tyr Trp
 610 615 620
 Ser Ser Leu Asp Val Ala Leu Phe Leu Leu Thr Phe Met Tyr Lys His
 625 630 635 640
 Glu His Asp Asp Asp Ala Lys Pro Asn Leu Asp Pro Ile
 645 650

<210> 3418

<211> 531

<212> PRT

<213> Homo sapiens

<400> 3418

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Met Lys Gly Ala Arg Leu Phe Val Leu Leu Ser Ser Leu Trp Ser Gly
  1             5             10             15
Gly Ile Gly Leu Asn Asn Ser Lys His Ser Trp Thr Ile Pro Glu Asp
      20             25             30
Gly Asn Ser Gln Lys Thr Met Pro Ser Ala Ser Val Pro Pro Asn Lys
      35             40             45
Ile Gln Ser Leu Gln Ile Leu Pro Thr Thr Arg Val Met Ser Ala Glu
      50             55             60
Ile Ala Thr Thr Pro Glu Lys Ala Glu Gly Val Val Lys Leu Gln Asn
      65             70             75             80
Leu Thr Leu Pro Thr Asn Ala Ser Ile Lys Phe Asn Pro Gly Ala Glu
              85             90             95
Ser Val Val Leu Ser Asn Ser Thr Leu Lys Phe Leu Gln Ser Phe Ala
              100            105            110
Arg Lys Ser Asn Glu Gln Ala Thr Ser Leu Asn Thr Val Gly Gly Thr
              115            120            125
Gly Gly Ile Gly Gly Val Gly Gly Thr Gly Gly Val Gly Asn Arg Ala
              130            135            140
Pro Arg Glu Thr Tyr Leu Ser Arg Gly Asp Ser Ser Ser Ser Gln Arg
      145             150             155             160
Thr Asp Tyr Gln Lys Ser Asn Phe Glu Thr Thr Arg Gly Lys Asn Trp
              165             170             175
Cys Ala Tyr Val His Thr Lys Leu Ser Pro Thr Val Ile Leu Asp Asn
              180             185             190
Gln Val Thr Tyr Val Pro Gly Gly Lys Gly Pro Cys Gly Trp Thr Gly
              195             200             205
Gly Ser Cys Pro Gln Arg Ser Gln Lys Ile Ser Asn Pro Val Tyr Arg
              210             215             220
Met Gln His Lys Ile Val Thr Ser Leu Asp Trp Arg Cys Cys Pro Gly
      225             230             235             240

```

Tyr Ser Gly Pro Lys Cys Gln Leu Arg Ala Gln Glu Gln Gln Ser Leu
 245 250 255
 Ile His Thr Asn Gln Ala Glu Ser His Thr Ala Val Gly Arg Gly Val
 260 265 270
 Ala Glu Gln Gln Gln Gln Gln Gly Cys Gly Asp Pro Glu Val Met Gln
 275 280 285
 Lys Met Thr Asp Gln Val Asn Tyr Gln Ala Met Lys Leu Thr Leu Leu
 290 295 300
 Gln Lys Lys Ile Asp Asn Ile Ser Leu Thr Val Asn Asp Val Arg Asn
 305 310 315 320
 Thr Tyr Ser Ser Leu Glu Gly Lys Val Ser Glu Asp Lys Ser Arg Glu
 325 330 335
 Phe Gln Ser Leu Leu Lys Glu Glu Tyr Ser Ser Cys Ser Arg His Pro
 340 345 350
 Cys Gln Asn Gly Gly Thr Cys Ile Asn Gly Arg Thr Ser Phe Thr Cys
 355 360 365
 Ala Cys Arg His Pro Phe Thr Gly Asp Asn Cys Thr Ile Lys Leu Val
 370 375 380
 Glu Glu Asn Ala Leu Ala Pro Asp Phe Ser Lys Gly Ser Tyr Arg Tyr
 385 390 395 400
 Ala Pro Met Val Ala Phe Phe Ala Ser His Thr Tyr Gly Met Thr Ile
 405 410 415
 Pro Gly Pro Ile Leu Phe Asn Asn Leu Asp Val Asn Tyr Gly Ala Ser
 420 425 430
 Tyr Thr Pro Arg Thr Gly Lys Phe Arg Ile Pro Tyr Leu Gly Val Tyr
 435 440 445
 Val Phe Lys Tyr Thr Ile Glu Ser Phe Ser Ala His Ile Ser Gly Phe
 450 455 460
 Leu Val Val Asp Gly Ile Asp Lys Leu Ala Phe Glu Ser Glu Asn Ile
 465 470 475 480
 Asn Ser Glu Ile His Cys Asp Arg Val Leu Thr Gly Asp Ala Leu Leu
 485 490 495
 Glu Leu Asn Tyr Gly Gln Glu Val Trp Leu Arg Leu Ala Lys Gly Thr
 500 505 510
 Ile Pro Ala Lys Phe Pro Pro Val Thr Thr Phe Ser Gly Tyr Leu Leu
 515 520 525

Tyr Arg Thr

530

<210> 3419

<211> 112

<212> PRT

<213> Homo sapiens

<400> 3419

```

Met Gln Gln Gly Ser Ala Ser Thr Thr Pro Asp Gln Glu Leu Gln Asn
 1             5             10             15
Cys Lys Ile Leu Asp Thr Ile Gly Arg Gly Thr Phe Ser Glu Val Gln
      20             25             30
Asp His Met Leu Ile Gly Thr Gln Met Ala Ile Lys Ile Ile Pro Lys
      35             40             45
Ala Gly Ser Leu Gly Ile Thr Leu Gln Arg Val Ile Ser Ile Leu Lys
      50             55             60
Leu Leu Cys His Phe Asn Ile Val Arg Leu Tyr Gln Val Ile Asp Thr
      65             70             75             80
Pro Asn Thr Ser Tyr Leu Phe Ser Asn Gly Val Cys Lys Arg Arg Thr
      85             90             95
Pro Thr Gln Pro Ile His His His Gly Leu Met Arg Glu Glu Lys Ala
      100            105            110

```

<210> 3420

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3420

```

Met Leu Thr Val Ala Leu Leu Ala Leu Leu Cys Ala Ser Ala Ser Gly
 1             5             10             15
Asn Ala Ile Gln Ala Arg Ser Ser Ser Tyr Ser Gly Glu Tyr Gly Ser
      20             25             30

```

<211> 323

<213> Homo sapiens

Met	Ile	Gly	Cys	Leu	His	Ala	Arg	Val	Ser	Gly	Pro	Leu	Trp	Asp	Ala
1					5					10					15
Gly	Leu	Cys	Pro	Ala	Ser	Ser	Arg	Ser	Ala	His	Thr	Cys	Leu	Ser	Leu
				20					25					30	
Ser	Val	Ser	Asp	Ala	Pro	Val	Ser	Pro	Ala	Thr	Ala	Pro	His	Cys	Leu
		35						40					45		
Leu	Leu	Ser	Thr	Ala	Pro	Ala	Pro	Pro	Cys	Pro	Cys	His	Gly	Val	Leu
	50						55				60				
Asn	Ser	His	Pro	Phe	Ser	Pro	Pro	Phe	Pro	Gln	Arg	Pro	Asp	Gln	Glu
65					70					75					80

Leu Thr Gly Ser Trp Gly His Gly Pro Arg Ser Thr Leu Val Arg Ala
 85 90 95
 Lys Ala Met Ala Pro Pro Pro Pro Pro Leu Ala Ala Ser Thr Pro Leu
 100 105 110
 Leu His Gly Glu Phe Gly Ser Tyr Pro Ala Arg Gly Pro Arg Phe Ala
 115 120 125
 Leu Thr Leu Thr Ser Gln Ala Leu His Ile Gln Arg Leu Arg Pro Lys
 130 135 140
 Pro Glu Ala Arg Pro Arg Gly Gly Leu Val Pro Leu Ala Glu Val Ser
 145 150 155 160
 Gly Cys Cys Thr Leu Arg Ser Arg Ser Pro Ser Asp Ser Ala Ala Tyr
 165 170 175
 Phe Cys Ile Tyr Thr Tyr Pro Arg Gly Arg Arg Gly Ala Arg Arg Arg
 180 185 190
 Ala Thr Arg Thr Phe Arg Ala Asp Gly Ala Ala Thr Tyr Glu Glu Asn
 195 200 205
 Arg Ala Glu Ala Gln Arg Trp Ala Thr Ala Leu Thr Cys Leu Leu Arg
 210 215 220
 Gly Leu Pro Leu Pro Gly Asp Gly Gly Glu Val Leu Gly Ser Cys Ser
 225 230 235 240
 Ile Leu Glu Pro Pro Trp Cys Leu Cys Arg Ile Ser Ser Ile Gly Ser
 245 250 255
 Cys Val Phe Ile Phe Leu Cys Val Trp Val Met Tyr Leu Ser Gly Ser
 260 265 270
 Val Arg Ser Asp Thr Gln Gly Trp Ala Thr Glu Gly Thr Lys Arg Gln
 275 280 285
 Glu Asp Arg Met Trp Trp Leu Met Ser Val Ile Leu Ala Ile Trp Glu
 290 295 300
 Ala Glu Ala Gly Gly Ser Pro Glu Ile Arg Ser Ser Arg Pro Ala Trp
 305 310 315 320
 Leu Thr Trp

<210> 3422

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3422

```

Met Ser Val Val Pro Glu Lys Ser Gly Cys Leu Cys Leu Ala Ser Leu
  1              5              10              15
His Thr Trp Ala Leu Thr Ser Arg Leu Leu Gly Ser Ser Ser Ser Val
          20              25              30
Ser Arg Ala Ala Val Leu Leu Leu Leu Val Phe Pro His Phe Pro Pro
          35              40              45
Gly Lys Glu Arg Leu Pro Asn Ala Gly Met Glu Tyr Lys Gln Asn Val
          50              55              60
Met Gly Ser Ala Val Thr Pro Pro Pro Glu Ala Glu Ala Val Leu Leu
          65              70              75              80
Glu Asp Arg Arg Arg His His Arg Val Phe Pro Leu Pro Leu Pro Leu
          85              90              95
Leu Arg Asn Val Ser Ile Pro Ile Gly
          100              105

```

<210> 3423

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3423

```

Met Val Lys Gly Gly Ser Ser Ile Ile Ser Pro Asp Thr Asn Leu Leu
  1              5              10              15
Asn Ile Lys Gly Ser His Ser Lys Ser Lys Asn Ser His Phe Phe Phe
          20              25              30
Ser Asp Thr Val Lys Ile Thr Ala Phe Ser Lys Lys Asn Glu Asn Ile
          35              40              45
Phe Asn Cys Asp Leu Ile Asp Ser Val Asp Gln Ile Lys Asn Met Pro
          50              55              60
Cys Leu Asp Leu Arg Glu Phe Gly Lys Asp Val Lys Pro Trp His Val
          65              70              75              80

```

Glu Thr Thr Glu Ala Ala Arg Asn Asn Glu Asn Thr Gly Phe Asp Ala
 85 90 95
 Leu Ser His Glu Cys Thr Ala Lys Pro Leu Phe Pro Arg Val Glu Val
 100 105 110
 Gln Ser Glu Gln Leu Thr Val Glu Glu His Ile Lys Arg Asn Arg Cys
 115 120 125
 Tyr Ser Asp Thr Glu
 130

<210> 3424

<211> 139

<212> PRT

<213> Homo sapiens

<400> 3424

Met Ser Ile Arg Ser Asp Lys Ile Lys Asp Ile Asn Leu Met Phe Pro
 1 5 10 15
 Trp Pro Ala Leu Arg Cys Ala Gly Thr Asn Arg Leu Tyr Leu Leu Tyr
 20 25 30
 Phe Phe Phe Pro Phe Phe Leu Lys Arg Ser Leu Ala Gln Ser Pro Arg
 35 40 45
 Leu Glu Gly Ser Gly Ala Ile Ser Ala His Cys Arg Leu Arg Leu Pro
 50 55 60
 Gly Ser Arg Arg Ser Pro Ala Ser Ala Ser Arg Ile Ala Gly Thr Thr
 65 70 75 80
 Gly Ala Arg His Tyr Ala Arg Leu Ile Phe Cys Val Phe Leu Val Glu
 85 90 95
 Ala Gly Phe His His Val Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro
 100 105 110
 Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Cys
 115 120 125
 Val Arg Pro Leu Tyr Phe Phe Glu Leu Gln Thr
 130 135

<210> 3425

<211> 452

<212> PRT

<213> Homo sapiens

<400> 3425

```

Met Pro Trp Gly Lys Asn Ser Ser Pro His Trp Gly His His Leu Gly
  1              5              10              15
Cys Leu Pro Ser Ala Pro Ala Cys Arg Ile Trp Arg Pro His Ser Arg
      20              25              30
Pro Ala Trp Glu Pro Pro Arg Pro Ser Pro Leu Leu Cys Gln Asp Met
      35              40              45
Ala Leu Gln Asn Ala Leu Tyr Thr Gly Asp Leu Ala Arg Leu Gln Glu
      50              55              60
Leu Phe Pro Pro His Ser Thr Ala Asp Leu Leu Leu Glu Ser Arg Ala
      65              70              75              80
Ala Glu Pro Arg Trp Ser Ser His Gln Arg Gly Leu Trp Ser Leu Thr
      85              90              95
Tyr Glu Glu Glu Leu Thr Thr Pro Leu His Val Ala Ala Ser Arg Gly
      100             105             110
His Thr Glu Val Leu Arg Leu Leu Leu Arg Arg Arg Ala Arg Pro Asp
      115             120             125
Ser Ala Pro Gly Gly Arg Thr Ala Leu His Glu Ala Cys Ala Ala Gly
      130             135             140
His Thr Ala Cys Val His Val Leu Leu Val Ala Gly Ala Asp Pro Asn
      145             150             155             160
Ile Ala Asp Gln Asp Gly Lys Arg Pro Leu His Leu Cys Arg Gly Pro
      165             170             175
Gly Thr Leu Glu Cys Ala Glu Leu Leu Leu Arg Phe Gly Ala Arg Val
      180             185             190
Asp Gly Arg Ser Glu Glu Glu Glu Glu Thr Pro Leu His Val Ala Ala
      195             200             205
Arg Leu Gly His Val Glu Leu Ala Asp Leu Leu Leu Arg Arg Gly Ala
      210             215             220
Cys Pro Asp Ala Arg Asn Ala Glu Gly Trp Thr Pro Leu Leu Ala Ala

```

225	230	235	240
Cys Asp Val Arg	Cys Gln Ser Ile Thr	Asp Ala Glu Ala Thr	Thr Ala
245	250	255	
Arg Cys Leu Gln	Leu Cys Ser Leu Leu Leu	Ser Ala Gly Ala Asp	Ala
260	265	270	
Asp Ala Ala Asp	Gln Asp Lys Gln Arg Pro	Leu His Leu Ala Cys	Arg
275	280	285	
Arg Gly His Ala	Ala Val Val Glu Leu Leu Leu	Ser Cys Gly Val Ser	
290	295	300	
Ala Asn Thr Met	Asp Tyr Gly Gly His Thr	Pro Leu His Cys Ala	Leu
305	310	315	320
Gln Gly Pro Ala	Ala Ala Leu Ala Gln Ser Pro	Glu His Val Val Arg	
325	330	335	
Ala Leu Leu Asn	His Gly Ala Val Arg Val Trp	Pro Gly Ala Leu Pro	
340	345	350	
Lys Val Leu Glu	Arg Trp Ser Thr Cys Pro Arg	Thr Ile Glu Val Leu	
355	360	365	
Met Asn Thr Tyr	Ser Val Val Gln Leu Pro Glu	Glu Ala Val Gly Leu	
370	375	380	
Val Thr Pro Glu	Thr Leu Gln Lys His Gln Arg	Phe Tyr Ser Ser Leu	
385	390	395	400
Phe Ala Leu Val	Arg Arg Pro Arg Ser Leu Gln	His Leu Ser Arg Cys	
405	410	415	
Ala Pro Arg Ser	His Leu Glu Gly Ser Leu Pro	Gln Ala Leu Pro Arg	
420	425	430	
Leu Pro Leu Pro	Pro Arg Leu Leu Arg Tyr Leu	Gln Leu Asp Phe Glu	
435	440	445	
Gly Val Leu Tyr			
450			

<210> 3426

<211> 398

<212> PRT

<213> Homo sapiens

<400> 3426

Met Val Thr Leu Ile Thr Glu Lys Leu Gln Ser Gln Ser Leu Asp Asp
 1 5 10 15
 Leu Thr Cys Lys Ala Glu Ala Gly Pro Leu Gln Tyr Ser Ala Glu Thr
 20 25 30
 Leu Asn Lys Ser Gly Arg Leu Phe Pro Leu Glu Leu Asn Asp Gln Ser
 35 40 45
 Pro Trp Lys Val Phe Ser Gly Gly Pro Pro Val Arg Ser Gln Ala Ala
 50 55 60
 Thr Gly Pro Asp Phe Ser Phe Leu Pro Gly Leu Ser Ala Ala Ala His
 65 70 75 80
 Thr Met Gly Leu Gln Trp Gln Pro Gln Ser Pro Arg Pro Gly Val Gly
 85 90 95
 Leu Gly Ala Ala Ser Thr Val Asp Pro Ser Glu Ser Thr Gly Ser Ser
 100 105 110
 Thr Ala Pro Pro Thr Lys Arg His Cys Arg Ser Leu Ser Glu Pro Glu
 115 120 125
 Glu Leu Val Arg Cys Arg Ser Pro Trp Arg Pro Gly Ser Ser Lys Val
 130 135 140
 Trp Thr Pro Val Ser Lys Arg Arg Cys Asp Ser Gly Gly Ser Ala Thr
 145 150 155 160
 Arg Gln Gly Ser Pro Gly Ala Val Leu Pro Arg Ser Ala Val Trp Ser
 165 170 175
 Thr Gly Pro Thr Ser Pro Ala Thr Pro Arg Pro Ser Ser Ala Ser Gly
 180 185 190
 Gly Phe Val Asp Ser Ser Glu Gly Ser Ala Gly Ser Gly Pro Leu Trp
 195 200 205
 Cys Ser Ala Glu Ser Cys Leu Pro Ser Thr Arg Arg Arg Pro Ser Leu
 210 215 220
 Ser Gln Glu Arg Leu Ala Gly Ala Gly Thr Pro Leu Pro Trp Ala Ser
 225 230 235 240
 Ser Ser Pro Thr Ser Thr Pro Ala Leu Gly Gly Arg Arg Gly Leu Leu
 245 250 255
 Arg Cys Arg Ser Gln Pro Cys Val Leu Ser Gly Lys Arg Ser Arg Arg
 260 265 270
 Lys Arg Arg Arg Glu Glu Asp Ala Arg Trp Thr Arg Pro Ser Leu Asp

275	280	285
Phe Leu Lys Met Thr Gln Thr	Leu Lys Asn Ser Lys Ser	Leu Cys Ser
290	295	300
Leu Asn Tyr Glu Asp Asp Asp	Glu Asp Asp Thr Pro Val	Lys Thr Val
305	310	315
Leu Ser Ser Pro Cys Asp Ser	Arg Gly Leu Pro Gly Ile Thr	Met Pro
325	330	335
Gly Cys Ser Gln Arg Gly Leu	Arg Thr Ser Pro Val His	Pro Asn Leu
340	345	350
Trp Ala Ser Arg Glu Ser Val	Thr Ser Asp Gly Ser Arg	Arg Ser Ser
355	360	365
Gly Asp Pro Arg Asp Gly Asp	Ser Val Gly Glu Glu Gly	Val Phe Pro
370	375	380
Arg Ala Arg Trp Glu Leu Asp	Leu Glu Gln Ile Glu Asn	Asn
385	390	395

<210> 3427

<211> 119

<212> PRT

<213> Homo sapiens

<400> 3427

Met Pro Ala Pro Met Val Val	Ser Gly Lys Ala His Ser	Ser Ser Val
1	5	10
Thr Phe Pro Phe Ser Ile His	Leu Arg Leu His Ala Leu	Gln Leu Leu
20	25	30
Gly Leu Cys Ser Cys His Ile	Glu Glu Gly Gly Trp Ala	Arg His Gly
35	40	45
Ile Ile Leu Arg Ser Leu Leu	His Gln Leu Leu Gly Thr	Met Glu Tyr
50	55	60
Pro Arg Val Val Thr Ala Asp	Gly Ala Thr Trp Gly Arg	Ala Gln Val
65	70	75
Gly Gln Ala Thr Ala Gly Val	Met Ala Cys Glu Pro Gln	Ala Thr Ser
85	90	95
Gly Thr Phe Pro Thr Ala Ser	Met Gln Gly Cys Arg Ala	Met Val Pro

100 105 110
 Phe Ser Thr Ala Leu Glu Leu
 115

<210> 3428

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3428

Met Asp Gln Ser Arg Gly Arg Gly Thr Ala Leu Glu Pro Ile Gly Gly
 1 5 10 15
 Leu Arg Met Ala Ser Leu Ser Gly Lys Asp Phe His Pro Asp Ser Phe
 20 25 30
 Arg Pro Gln Pro Gln Pro Ser Arg Arg Trp Ala Gly Leu Glu Glu Arg
 35 40 45
 Ser Ser Glu Arg Thr Ile Asn Leu Ser Val Leu His Phe Tyr Pro Ser
 50 55 60
 Pro Gln Glu Ser Pro Ser Leu Pro Ser Ala Val Arg Pro Phe Pro Gly
 65 70 75 80
 Ala Arg Gly Val Arg Ser Arg Ala Leu Met Gly Val Asn Cys Ser Leu
 85 90 95
 Asp Ser Val Lys Leu Ala Cys Trp Leu Gly Val Phe Pro Ile Trp Gly
 100 105 110
 Glu Ser Pro Leu Thr Asn Ser Pro Lys Ala Ile His Arg Ala Phe Tyr
 115 120 125
 Ser Pro Thr Ser Thr Gln Leu Leu Tyr Arg Gln Arg Gln Arg Gln Thr
 130 135 140
 His Thr His Ser
 145

<210> 3429

<211> 223

<212> PRT

<213> Homo sapiens

<400> 3429

```

Met Arg Pro Leu Gly Lys Gly Leu Leu Pro Ala Glu Glu Leu Ile Arg
 1             5             10             15
Ser Asn Leu Gly Val Gly Arg Ser Leu Arg Asp Cys Leu Ser Gln Ser
      20             25             30
Gly Lys Leu Ala Glu Glu Leu Gly Ser Lys Arg Leu Lys Pro Ala Lys
      35             40             45
Phe Gly Thr Glu Gly Lys Glu Arg Val Glu Gln Arg Thr Glu Arg Gln
      50             55             60
Arg Thr Gly Ser Ser Lys Glu Pro Arg Met Gln Ile Ile Cys Arg Arg
      65             70             75             80
Arg Trp Arg Glu Pro Pro Pro Arg Leu Leu Trp Gly Cys Leu Met Pro
      85             90             95
Arg Ala Gln Pro Leu Leu His Val Thr Ala Tyr Glu Asn Thr Gly His
      100            105            110
Trp Glu Arg Leu Ala Ser Val Val Ser Ser Lys Thr Gln Gln Pro Thr
      115            120            125
Val Ile Ser His Ser Ser Ile Ser Ile Thr Phe Ser His Tyr Pro Pro
      130            135            140
Ala Thr Leu Asp Ser Phe Leu Val Leu Glu Pro Ile Lys Leu Phe Pro
      145            150            155            160
Val Ser Ser Leu Arg Ser Pro Leu Cys Leu Asn Cys Gly Ser Cys Arg
      165            170            175
Glu Ser Ile Arg Ile Ser Gly Glu Leu Ile Gly Asn Ala His Ser Pro
      180            185            190
Ala Pro Pro Arg Thr Pro Glu Leu Glu Thr Leu Gly Trp Asp Lys Gln
      195            200            205
Ala Val Leu Ser Gly Ala Gln Val Ile Leu Val Cys Ala Glu Val
      210            215            220

```

<210> 3430

<211> 132

<212> PRT

<213> Homo sapiens

<400> 3430

Met Val Thr Leu Met Gly Val Trp Leu Gly Pro Trp Gly Arg Gly Met
 1 5 10 15
 Ala Ala Pro Pro Thr Glu Gly Ala Ala Val Thr Pro Ala Ser Ser Pro
 20 25 30
 Gly Pro Gln Ala Ser Leu Ala Trp Arg Ser Ser Gly Ser Arg Pro Cys
 35 40 45
 Cys Pro Leu Thr Ala Ser Leu Thr Ser Pro Trp Arg Asn Gln Pro Leu
 50 55 60
 His Thr Ala Pro Ser Gly Gly Gly Cys Cys Val Thr Gly Pro Ala Cys
 65 70 75 80
 Ser Ile Ala Trp Ala Gly Arg Ser Pro Pro Ser Arg Trp Ile Phe Gln
 85 90 95
 Arg Gly Leu Thr Ala Thr Ser Thr Leu Pro Gly Ser Cys Trp Lys Gly
 100 105 110
 Arg Ser Ser Ala Ser Trp Pro His Thr Gly Ala Val Cys Cys Pro Ala
 115 120 125
 Pro Ala Pro Cys
 130

<210> 3431

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3431

Met Glu Gln Asp Asn Ser Pro Arg Lys Ile Gln Phe Thr Val Pro Leu
 1 5 10 15
 Leu Glu Pro His Leu Asp Pro Glu Ala Ala Glu Gln Ile Arg Arg Arg
 20 25 30
 Arg Pro Thr Pro Ala Thr Leu Val Leu Thr Ser Asp Gln Ser Ser Pro
 35 40 45
 Glu Ile Asp Glu Asp Arg Ile Pro Asn Pro His Leu Lys Lys Leu Gln

50 55 60
 Asn Ala Ser Leu Lys Leu Thr Arg Glu Ala Val Arg Asn Pro Ala Gln
 65 70 75 80
 Lys Asn Pro Gln Pro Ile Tyr His His Trp Ile Pro Arg Glu Pro Thr
 85 90 95
 Arg Ser Glu Arg Arg Gly Gly Thr Gly Gly Gln Lys Ser Val Gly Gly
 100 105 110
 Phe Pro Cys Ser Thr His Thr Leu Ala Pro Phe Tyr Val Phe Thr Arg
 115 120 125
 Ser Ile Leu Leu Leu Lys Arg Gly Glu Arg Met Ser His Pro Leu Glu
 130 135 140
 Pro Arg Asp Asp Pro Thr Lys Met Pro
 145 150

<210> 3432

<211> 387

<212> PRT

<213> Homo sapiens

<400> 3432

Met Ser Ser Pro Pro Ala Leu Arg Asp Ser Pro Val Cys Pro Arg Tyr
 1 5 10 15
 Ser Pro Thr Thr Pro Thr Phe Gln Leu Glu Ser Leu Ala Gly Thr Gln
 20 25 30
 Glu Leu Pro Thr Asn Ser Ala Val Ala Leu Ser Tyr Ser Pro Val Ser
 35 40 45
 Leu Met Ser Ser Pro Pro Ala Pro Trp Asp Ser Pro Val Cys Pro Ser
 50 55 60
 Ser Ser Pro Thr Thr Pro Arg Phe Gln Arg Glu Ser Ala Ser His Thr
 65 70 75 80
 Pro Glu Ser Pro Thr Asp Ser Gln Thr Ser Arg Arg Ser Ser Leu Val
 85 90 95
 Ser Leu Arg Ser Leu Pro Ser Ala His Arg Asp Ser Cys Val Ser Phe
 100 105 110
 Ser Tyr Ser Arg Asn Phe Ser Arg Phe Gln Leu Asp Ser Val Pro Gly

115	120	125
Thr His Asp Thr Pro Pro Asn Ser Arg Ile Ser Leu Thr Tyr Ser Pro		
130	135	140
Val Ser Leu Met Phe Ser Pro Pro Ala Leu Arg Asp Ser Ser Val Ser		
145	150	155
160		
Leu Ser Tyr Ser Pro Ala Ile Ser Thr Ser His Leu Gly Ser Ala Ser		
165	170	175
His Thr Gln Glu Ser Pro Thr Asn Ser Arg Thr Leu Leu Gln Pro Ser		
180	185	190
Pro Ile Ser Phe Thr Ser Ser Pro Pro Ala Phe Arg Asp Ser Pro Val		
195	200	205
Ser Pro Ser Phe Ser Pro Ala Phe Pro Arg Phe Leu Pro Gln Ser Ala		
210	215	220
Pro Gly Thr Gln Gly Tyr Pro Gly His Ser Gln Ala Ser Arg Asp Tyr		
225	230	235
240		
Phe Pro Met Thr Cys Ile Tyr Arg Gly Met Ala Pro Ile Leu Pro Ser		
245	250	255
Val Thr Ser Asn Pro Ser Pro Leu Thr Leu Arg His Ser Gln Gly Leu		
260	265	270
Thr Ala Thr Pro Arg Tyr Cys Pro Ser Ala Arg Ser Pro Gly Pro Ser		
275	280	285
Thr Ser Gln His Asp Ala Ala Thr Trp Pro Cys Leu His Ile Ser Gly		
290	295	300
Glu Gly Pro Thr Pro Ser Arg Arg Arg Ala Pro Pro Ala Phe Arg Pro		
305	310	315
320		
His Thr Gln Ala Cys Pro Ser Thr Cys Tyr Cys His Pro Leu Ala Ser		
325	330	335
Arg Arg Gly Pro Cys Asn Gly Arg Tyr His Arg Pro Val Tyr Pro His		
340	345	350
Pro Thr Ala Val Gln Arg Asp Pro Pro Ala Gly Pro Arg Gly Cys His		
355	360	365
Ser Pro Cys Trp His Asp Ala Pro Ala Cys Arg Arg Pro Cys Gly Pro		
370	375	380
Arg Tyr Arg		

385

<210> 3433

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3433

```

Met Pro Gly Glu Pro Pro Leu Gly Lys Met Phe Gly Arg Gly Ser Lys
 1             5             10             15
Gly Ser Thr Glu Asp Gly Leu Glu Leu Arg Gly Ile His Phe Met Val
          20             25             30
Lys Lys Pro Phe Leu Lys Glu Ser Ser Thr Gln Glu Thr Pro Pro Thr
          35             40             45
His Ala Ser Leu Pro Pro Lys Thr Arg Leu Cys Leu Ser His Thr Phe
          50             55             60
Tyr Val Leu Tyr Ile Lys Asn Pro Leu Glu Phe Ser Lys Leu Gly Ile
 65             70             75             80
Val Val Cys Asp Ala Tyr Leu Lys Arg Gly Glu Arg Val Gly His Gly
          85             90             95
Gly Ser Arg Leu
          100

```

<210> 3434

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3434

```

Met Gln Ala Leu Ser Lys Leu Gly Ser Leu Ser Gln Leu Asp Trp Gly
 1             5             10             15
Pro Arg Pro Gly Ser Gly Ala Ala Gly Ala Trp Ala Trp Gly Leu Ala
          20             25             30
Val Ala His Gly Leu Ser Ser Gly Leu Gly Trp Arg Arg Cys Ser Leu
          35             40             45

```

Ala Ala Cys Ala Val Leu Glu Leu Thr Trp Gly Lys Ala Gly Leu Ala
 50 55 60
 Gly Leu Gly Arg Ala Arg Leu Trp Pro Arg Pro Leu Gly Arg Leu Arg
 65 70 75 80
 Arg Glu Gln Arg Leu Ser Pro Gly Ala Leu Arg Cys Ile Cys Ala Arg
 85 90 95
 Ser Val Ala Arg Cys Leu
 100

<210> 3435

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3435

Met Ser Ser Gln Cys Leu Glu Thr Arg Thr Val Ile Tyr Arg Ser Ile
 1 5 10 15
 Phe Leu Val Phe Leu Lys Val Ser Phe His Asn Thr Arg Ser Ser Leu
 20 25 30
 Pro Leu Val Ser Trp Arg Val His Pro Thr Asp Glu Ser Ser Phe Pro
 35 40 45
 Val Gly Leu Ser His Leu Gly Asn Ser Leu Arg Ser Thr Tyr Gln Pro
 50 55 60
 Arg Lys Lys Leu Pro Gly Tyr Leu Leu Pro Thr Cys Pro Gly Leu Ile
 65 70 75 80
 Asn Thr Lys Gly Gly Lys Leu Lys Gly Ala Ala Asn Trp Ser Thr Trp
 85 90 95
 Lys Gly Gly Ser Thr Leu Asp Trp Cys Leu Ser Phe Ser Ser Phe Phe
 100 105 110
 Leu Lys Lys Ile Tyr Phe Leu Asn Asn Asn Lys Cys Thr
 115 120 125

<210> 3436

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3436

```

Met Asp Gly Gln Thr Glu Arg Ala Ala Asn Gln Gln Ala Ser Ser Ser
  1              5              10              15
Gln Ala Ser His Leu Trp Pro Cys Ile Phe Leu Ser Val Gly Gln Arg
      20              25              30
Tyr Lys Glu Ile Arg Gln Lys Tyr Arg Arg Trp Ser Phe Ala Leu Ser
      35              40              45
Pro Arg Leu Glu Gly Asn Asp Thr Thr Ile Ala His Trp Ser Leu Glu
      50              55              60
Leu Leu Gly Ser His Asp Pro Pro Thr Ser Ala Ser Gln Val Ala Gly
      65              70              75              80
Thr Thr Ala Thr His His Cys Gly Gly Leu Thr Gly Gly Val Arg Thr
      85              90              95
Glu Val Asn Ser Leu
      100

```

<210> 3437

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3437

```

Met Thr Pro Pro Pro Lys Thr His Thr His Thr Val Val Ser Tyr His
  1              5              10              15
Ser Arg Trp Ala Met Cys Lys Asp Ser Arg Asp Gln Glu Cys Arg Trp
      20              25              30
Pro Gln Gln Gly Trp Leu Ser Phe Pro Cys Ser Phe Thr Ser Gly Thr
      35              40              45
Ser Ala Gly Lys Gly Leu Ser Ser Trp Asn His Ala Pro Val Ile Gly
      50              55              60
Ala Ala Ile Thr Trp Gln Leu Gly Leu Ser Ala Gly Met His Thr Gly
      65              70              75              80

```

Ala Leu Leu Cys Gly Val Ala Ser Ser Ala Cys Leu Asp Phe Phe Tyr
 85 90 95
 Gly Gly Pro Glu Ile
 100

<210> 3438

<211> 253

<212> PRT

<213> Homo sapiens

<400> 3438

Met Leu Ile Leu Gly Ser Met Phe Ser Leu Val Glu Pro Val Leu Thr
 1 5 10 15
 Ile Ala Ala Ala Leu Ser Val Gln Ser Pro Phe Thr Arg Ser Ala Gln
 20 25 30
 Ser Ser Pro Glu Cys Ala Ala Ala Arg Arg Pro Leu Glu Ser Asp Gln
 35 40 45
 Gly Asp Pro Phe Thr Leu Phe Asn Val Phe Asn Ala Trp Val Gln Val
 50 55 60
 Lys Ser Glu Arg Ser Arg Asn Ser Arg Lys Trp Cys Arg Arg Arg Gly
 65 70 75 80
 Ile Glu Glu His Arg Leu Tyr Glu Met Ala Asn Leu Arg Arg Gln Phe
 85 90 95
 Lys Glu Leu Leu Glu Asp His Gly Leu Leu Ala Gly Ala Gln Ala Ala
 100 105 110
 Gln Val Gly Asp Ser Tyr Ser Arg Leu Gln Gln Arg Arg Glu Arg Arg
 115 120 125
 Ala Leu His Gln Leu Arg Arg Gln His Glu Glu Gly Ala Gly Arg Arg
 130 135 140
 Arg Lys Val Leu Arg Leu Gln Glu Glu Gln Asp Gly Gly Ser Ser Asp
 145 150 155 160
 Glu Asp Arg Ala Gly Pro Ala Pro Pro Gly Ala Ser Asp Gly Val Asp
 165 170 175
 Ile Gln Asp Val Lys Phe Lys Leu Arg His Asp Leu Ala Gln Leu Gln
 180 185 190

Ala Ala Ala Ser Ser Ala Gln Asp Leu Ser Arg Glu Gln Leu Ala Leu
 195 200 205
 Leu Lys Leu Val Leu Gly Arg Gly Leu Tyr Pro Gln Leu Ala Val Pro
 210 215 220
 Asp Ala Phe Asn Ser Ser Arg Lys Asp Ser Asp Gln Val Gly Pro Val
 225 230 235 240
 Leu Pro His Pro Met Phe Cys Pro Pro Thr His Glu Pro
 245 250

<210> 3439

<211> 180

<212> PRT

<213> Homo sapiens

<400> 3439

Met Ala Gln Pro Pro Val Thr Leu Leu Cys Ile Cys Ser Glu Val Leu
 1 5 10 15
 Val Arg Ala Ala Asp Ser Ile Trp Lys Trp Thr Leu Ser Gly Pro Gly
 20 25 30
 Pro Gly Ser Val Trp Pro Ser Thr Gly Glu Ala Gly Leu Arg Arg Gly
 35 40 45
 Leu Arg Ala Glu Ala Pro Leu Gln Gln Leu Gln Glu Gly Pro Ala Pro
 50 55 60
 Gly Glu Glu Cys Leu Gly Arg Ala Trp Gly Leu Arg Val Arg Arg Arg
 65 70 75 80
 Gly Pro Leu Pro Pro Leu Pro Trp Gly Ser Glu Arg Pro Pro Cys Cys
 85 90 95
 Leu Glu Gly Ala Trp Gln Leu Glu Trp Glu Gln Arg Pro Gln Gly Gly
 100 105 110
 Arg Ala Gly Gly Arg Gly Pro Ala Ala Cys Pro Val Pro Arg Lys Val
 115 120 125
 Thr Ala Cys Phe Glu Ser Ala Ala Lys Lys Ser Val Gly Gln Phe Arg
 130 135 140
 Gln Leu Ser Pro Glu Leu Pro Arg Glu Thr His Pro Ala Cys Pro Ala
 145 150 155 160

Leu Pro Thr Gly Ser Arg Arg Thr Glu Gly Thr Gln Leu Gly Ala Arg
 165 170 175
 Arg Pro Gly Leu
 180

<210> 3440

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3440

Met Pro Ser Phe Thr His Ser Pro Pro Glu His Ser Val Ser Pro Met
 1 5 10 15
 Val Arg Ala Arg Leu Leu Arg Met Ala Phe Lys Ala Ser Val Pro Ser
 20 25 30
 Pro Arg Pro Ala Ile Leu Gln Arg Val Arg Ser Ala Ser Pro Gly Pro
 35 40 45
 Leu Pro Val Leu Leu Cys Glu Ala Pro Cys Pro His Leu Phe Thr Cys
 50 55 60
 Gln Pro Leu His Phe Leu Arg Val Leu Thr Leu Val Ser Trp Leu Pro
 65 70 75 80
 Phe Tyr Phe Lys Glu Pro Pro Val Tyr Leu Pro Pro Ser Val Ser Leu
 85 90 95
 Ile Leu Leu Ala Leu Ser Phe Phe Cys Ile Ile Tyr Tyr Leu Ile Thr
 100 105 110
 Tyr Lys Lys Met Tyr Thr Leu Met Cys Thr Val Ser Asn Cys
 115 120 125

<210> 3441

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3441

Met Pro Val Thr Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly Ser Leu
 1 5 10 15
 Glu Leu Arg Ser Ser Gly Pro Ala Leu Asp Lys Met Val Arg Pro Cys
 20 25 30
 Leu Cys Gln Lys Asn Thr Glu Val Ser Gln Ala Trp Cys Ser Val Pro
 35 40 45
 Val Val Ala Ala Thr Gly Glu Ala Glu Val Gly Gly Ser Leu Asp Pro
 50 55 60
 Arg Arg Ser Gly Leu Gln Trp Ala Val Ile Val Pro Leu His Pro Ser
 65 70 75 80
 Leu Gly Asp Arg Val Arg Pro Cys Leu Lys Lys Arg Lys Val Lys Ala
 85 90 95
 Thr Arg Gly Gly Ser Cys Leu Trp Phe Gln His Phe Gly Arg Pro Arg
 100 105 110
 Arg Val Asp His Leu Arg Trp Gly Val
 115 120

<210> 3442

<211> 322

<212> PRT

<213> Homo sapiens

<400> 3442

Met Arg Pro Lys Pro Pro Ser Arg Ala Gly Val Leu Gln Ile Ala Gln
 1 5 10 15
 Glu Leu His Arg Lys Ala Glu Gln Thr Pro Pro Arg Pro Arg Pro Arg
 20 25 30
 Ser Leu Thr Val Ala Arg Gly Ser Val Gly His Thr Glu Glu Arg Gly
 35 40 45
 Gly Val Ala Ala Glu Leu Arg Lys Arg Leu Val Arg Gly Gly Ala Arg
 50 55 60
 Arg Gly Ser Arg Asp Gly Gly Arg Gly Arg Gly Gly Gly Val Ala
 65 70 75 80
 Gly Gln Arg Ser Gln Glu Gly Trp Gly Ser Gly Arg Arg Ala Arg Val
 85 90 95

Thr Gly Arg Gly Ser Trp Gly Arg Gly Pro Gly Val Ala Ala Arg Gly
 100 105 110
 Val Gly Ala Ala Gly Arg Asp Thr Gly Gly Pro Arg Ala Leu Gly Gly
 115 120 125
 Gly Cys Lys Ala Trp Ile Thr Leu Met Ser Gly Glu Thr Cys Thr Gly
 130 135 140
 Gly Thr Ile Leu Ser Pro Thr Ser Ala Pro Glu Ala Gln Pro Ala Asp
 145 150 155 160
 Gly Ala Gly Cys Arg Thr Ser Gln Gln Ser Leu Gly Gly Lys Gly Gly
 165 170 175
 Ala Gly Arg Thr His Ala Pro Ser Ala Ala Arg Glu Arg Gly Ala Ala
 180 185 190
 Pro Pro Gly Asp Arg Arg Val Thr Ala Arg Pro Arg Ala Ala Val Thr
 195 200 205
 Ser Arg Glu Ala His Ala His Lys Gly Trp Gly Val Arg Gly Gly Ser
 210 215 220
 Ser Ala Ala Pro Ala Gln Leu Leu Arg Glu Ala Gly Ser Ala Pro Ser
 225 230 235 240
 Gly Arg Gly Val Ser Phe Pro Arg Arg Ala Gly Gly Pro Leu Phe Pro
 245 250 255
 Arg Ala Ala Ala Glu Ala Pro Pro Ser Ala Ser Trp Pro Cys Val His
 260 265 270
 Thr Pro Asp Cys Gly Pro Gly Arg Thr Leu Ser Ser Cys Ala Glu Arg
 275 280 285
 Arg Arg Pro Glu Val Arg Ala Ala Arg Ala Gly Pro Ala Pro Arg Thr
 290 295 300
 Ala Pro Thr Arg Gly Trp Pro Gly Gln Gly Pro Gly Gly Pro Gly Ser
 305 310 315 320
 Gly Val

<210> 3443

<211> 267

<212> PRT

<213> Homo sapiens

<400> 3443

Met Lys Ala Glu Ala Thr Val Ile Pro Ser Arg Cys Ala Arg Gly Leu
 1 5 10 15
 Pro Ser Trp Gln Val Leu Ser Pro Val Gln Pro Trp Gln Thr Ser Ala
 20 25 30
 Pro Gln Asn Thr Thr Gln Pro Lys Leu Leu Ala Pro His Gln His Asp
 35 40 45
 Lys Ser Gln Lys Lys Ser Ser Leu Leu Lys Glu Leu Gly Ala Phe His
 50 55 60
 Ile Thr Ile Ala Leu Leu His Leu Val Phe Gly Gly Tyr Leu Ala Ser
 65 70 75 80
 Ile Val Lys Asn Leu His Leu Val Val Leu Lys Ser Trp Tyr Pro Phe
 85 90 95
 Trp Gly Ala Ala Ser Phe Leu Ile Ser Gly Ile Leu Ala Ile Thr Met
 100 105 110
 Lys Thr Phe Ser Lys Thr Tyr Leu Lys Met Leu Cys Leu Met Thr Asn
 115 120 125
 Leu Ile Ser Leu Phe Cys Val Leu Ser Gly Leu Phe Val Ile Ser Lys
 130 135 140
 Asp Leu Phe Leu Glu Ser Pro Phe Glu Ser Pro Ile Trp Arg Met Tyr
 145 150 155 160
 Pro Asn Ser Thr Val His Ile Gln Arg Leu Glu Leu Ala Leu Leu Cys
 165 170 175
 Phe Thr Val Leu Glu Leu Phe Leu Pro Val Pro Thr Ala Val Thr Ala
 180 185 190
 Trp Arg Gly Asp Cys Pro Ser Ala Lys Asn Asp Asp Ala Cys Leu Val
 195 200 205
 Pro Asn Thr Pro Leu His Leu Lys Gly Leu Pro Val Glu Pro Pro Pro
 210 215 220
 Ser Tyr Gln Ser Val Ile Gln Gly Asp Ala Gln His Lys Gln His Gln
 225 230 235 240
 Arg Leu Arg Glu Val Lys Gln Val Ala Pro Asp Thr Trp Ile Val Thr
 245 250 255
 Asp Gly Ala Ala Ile Trp Ala Gln Thr Ala Asn
 260 265

<210> 3444

<211> 497

<212> PRT

<213> Homo sapiens

<400> 3444

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Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Val Val Ile Ile Lys Gly
 1             5             10             15
Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Thr
      20             25             30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
      35             40             45
Gly Asp Phe Tyr Met Thr Trp Leu Arg Gln Val Pro Gly Lys Asp Leu
      50             55             60
Glu Trp Leu Ala Tyr Ile Ser Ser Asn Gly Gly Tyr Ser Glu Tyr Ala
      65             70             75             80
Asp Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Asn
      85             90             95
Ser Leu His Leu Gln Met Asn Ser Leu Arg Ala Gln Asp Thr Ala Ile
      100            105            110
Tyr Tyr Cys Ala Arg Phe Thr Val Ser Met Asp Thr Val Ala Tyr Ser
      115            120            125
Tyr Gly Leu Asp Val Trp Gly Pro Gly Thr Ala Val Thr Val Ser Ser
      130            135            140
Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr
      145            150            155            160
Gln Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe
      165            170            175
Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val
      180            185            190
Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr
      195            200            205
Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly
      210            215            220

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Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp
 225 230 235 240
 Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro
 245 250 255
 Ser Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser
 260 265 270
 Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn
 275 280 285
 Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe
 290 295 300
 Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu
 305 310 315 320
 Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys
 325 330 335
 Ala Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr
 340 345 350
 Pro Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn
 355 360 365
 Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu
 370 375 380
 Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser
 385 390 395 400
 Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro
 405 410 415
 Arg Glu Lys Tyr Leu Thr Trp Ala Ser Trp Gln Glu Pro Ser Gln Gly
 420 425 430
 Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp
 435 440 445
 Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu
 450 455 460
 Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro
 465 470 475 480
 Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys
 485 490 495
 Tyr

<210> 3445

<211> 101

<212> PRT

<213> Homo sapiens

<400> 3445

```

Met Ala Gly Leu Ala Arg Arg Val Val Gly Ala Phe Leu Leu Phe His
 1             5             10             15
Phe Lys Gln Lys Ser Gly Ala Glu Thr Gly Glu Ala Ala Leu His Leu
          20             25             30
Gly Arg Ser Pro Val Leu Pro Ala Arg Ala Gly Ile Leu Arg Thr Cys
      35             40             45
Leu Ser Leu Arg Ala Val Thr Ser Pro Gln Asp Phe Gly Ser Ala Gln
      50             55             60
Arg Thr Arg Ser Ala Pro Leu Gly Pro Ile Asn Gln Ala Ser Arg Arg
 65             70             75             80
Val Gln Pro Gly Lys Ala Asn Pro Glu Arg Arg Ala Asn Asp Ser Asp
          85             90             95
Ser Gln Gly Lys Ala
          100

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<210> 3446

<211> 175

<212> PRT

<213> Homo sapiens

<400> 3446

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Met His Gly Glu Lys Ser His Gly Arg Gly Gln Ala Gly Arg Gln Val
 1             5             10             15
Pro Leu Lys Gln Gln Ser Val Ser Gly Glu Ser Gln Gln Gly Ala Arg
          20             25             30
Gln Gly Ala Gly Gln Ser Thr Cys Tyr Leu Ser Ser Ala Phe Leu Cys
      35             40             45

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Asn Gly Ser Phe Pro Ala Gly Ser Met Ser Leu Trp Asp Pro Gln Pro
 50 55 60
 Lys Gln Ala Phe Pro Ser Val Leu Trp Cys Ser Trp Ala Gly Val Pro
 65 70 75 80
 Gly Arg Arg Thr Gly Gln Arg Asp Pro Arg Val Gln Glu Arg Arg Gly
 85 90 95
 Asp Phe Val Ser Lys Leu Gly Ala Ala Val Gly Gly Glu Pro Leu Ala
 100 105 110
 Leu Phe Gly Pro His Ser Trp Pro Gly Met Gly His Arg Val Pro Gly
 115 120 125
 Leu Gly Ala Gly Phe Leu Leu Phe Ala Gly Phe Ala Leu Glu Pro Trp
 130 135 140
 Asp Ser Tyr His Val Val Phe Glu Gly Trp Thr Ile Asp Met Arg Arg
 145 150 155 160
 Asn Glu Pro Glu Arg Thr Arg Ser Leu Ser Ala Pro Gly Pro Leu
 165 170 175

<210> 3447

<211> 487

<212> PRT

<213> Homo sapiens

<400> 3447

Met Glu Leu Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Glu Gly
 1 5 10 15
 Val His Cys Glu Ala Gln Val Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe
 35 40 45
 Ser Ser Phe Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Ala Ser Ile Asn Lys Asp Gly Arg Asp Ser Tyr Tyr Val
 65 70 75 80
 Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Thr
 85 90 95

Ser Leu Tyr Leu Gln Met Gly Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110
 Tyr Tyr Cys Ala Arg Lys Phe Met Phe Asp Ser Trp Ser Ser Tyr Tyr
 115 120 125
 Val Glu Gly His Tyr Phe Asp Leu Trp Gly Arg Gly Thr Gln Val Thr
 130 135 140
 Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu
 145 150 155 160
 Asp Ser Thr Pro Gln Asp Gly Asn Val Val Val Ala Cys Leu Val Gln
 165 170 175
 Gly Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly
 180 185 190
 Gln Asn Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly
 195 200 205
 Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys
 210 215 220
 Pro Asp Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro
 225 230 235 240
 Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro Pro Pro Pro Cys
 245 250 255
 Cys His Pro Arg Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu
 260 265 270
 Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp
 275 280 285
 Ala Ser Gly Ala Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala
 290 295 300
 Val Gln Gly Pro Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser
 305 310 315 320
 Ser Val Leu Pro Gly Cys Ala Gln Pro Trp Asn His Gly Glu Thr Phe
 325 330 335
 Thr Cys Thr Ala Ala His Pro Glu Leu Lys Thr Pro Leu Thr Ala Asn
 340 345 350
 Ile Thr Lys Ser Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro
 355 360 365
 Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys
 370 375 380

Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln
 385 390 395 400
 Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg
 405 410 415
 Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu
 420 425 430
 Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met
 435 440 445
 Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp
 450 455 460
 Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala
 465 470 475 480
 Glu Val Asp Gly Thr Cys Tyr
 485

<210> 3448

<211> 167

<212> PRT

<213> Homo sapiens

<400> 3448

Met Ala Ser Phe Pro Leu Leu Leu Thr Leu Leu Thr His Cys Ala Gly
 1 5 10 15
 Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr
 20 25 30
 Pro Gly Gln Thr Val Thr Ile Ser Cys Ser Gly Ala Ser Ser Asn Ile
 35 40 45
 Gly Arg Asn Ser Val Asn Trp Phe Gln Gln Leu Pro Gly Thr Ala Pro
 50 55 60
 Lys Leu Leu Asn His Asn Asn Asn Gln Arg Pro Ala Gly Val Pro Asp
 65 70 75 80
 Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser
 85 90 95
 Gly Leu His Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp
 100 105 110

Asn Ser Leu Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
 115 120 125
 Leu Gly Glu Ser Leu Leu Pro Ser Pro Ser Pro Leu Leu Gly Gln Phe
 130 135 140
 Leu Leu Phe Leu Phe Val Ser Leu Cys Cys Leu Lys Leu Trp Ser Asp
 145 150 155 160
 Phe Leu Pro Thr Ser Gln Ala
 165

<210> 3449

<211> 425

<212> PRT

<213> Homo sapiens

<400> 3449

Met Val Pro Glu Gly Leu Cys Ile Ser Val Pro Cys Ser Phe Ser Tyr
 1 5 10 15
 Pro Arg Gln Asp Trp Thr Gly Ser Thr Pro Ala Tyr Gly Tyr Trp Phe
 20 25 30
 Lys Ala Val Thr Glu Thr Thr Lys Gly Ala Pro Val Ala Thr Asn His
 35 40 45
 Gln Ser Arg Glu Val Glu Met Ser Thr Arg Gly Arg Phe Gln Leu Thr
 50 55 60
 Gly Asp Pro Ala Lys Gly Asn Cys Ser Leu Val Ile Arg Asp Ala Gln
 65 70 75 80
 Met Gln Asp Glu Ser Gln Tyr Phe Phe Arg Val Glu Arg Gly Ser Tyr
 85 90 95
 Val Arg Tyr Asn Phe Met Asn Asp Gly Phe Phe Leu Lys Val Thr Val
 100 105 \ 110
 Leu Ser Phe Thr Pro Arg Pro Gln Asp His Asn Thr Asp Leu Thr Cys
 115 120 125
 His Val Asp Phe Ser Arg Lys Gly Val Ser Val Gln Arg Thr Val Arg
 130 135 140
 Leu Arg Val Ala Tyr Ala Pro Arg Asp Leu Val Ile Ser Ile Ser Arg
 145 150 155 160

Asp Asn Thr Pro Asp Pro Pro Glu Asn Leu Arg Val Met Val Ser Gln
 165 170 175
 Ala Asn Arg Thr Val Leu Glu Asn Leu Gly Asn Gly Thr Ser Leu Pro
 180 185 190
 Val Leu Glu Gly Gln Ser Leu Cys Leu Val Cys Val Thr His Ser Ser
 195 200 205
 Pro Pro Ala Arg Leu Ser Trp Thr Gln Arg Gly Gln Val Leu Ser Pro
 210 215 220
 Ser Gln Pro Ser Asp Pro Gly Val Leu Glu Leu Pro Arg Val Gln Val
 225 230 235 240
 Glu His Glu Gly Glu Phe Thr Cys His Ala Arg His Pro Leu Gly Ser
 245 250 255
 Gln His Val Ser Leu Ser Leu Ser Val His Tyr Lys Lys Gly Leu Ile
 260 265 270
 Ser Thr Ala Phe Ser Asn Gly Ala Phe Leu Gly Ile Gly Ile Thr Ala
 275 280 285
 Leu Leu Phe Leu Cys Leu Ala Leu Ile Ile Met Lys Ile Leu Pro Lys
 290 295 300
 Arg Arg Thr Gln Thr Glu Thr Pro Arg Pro Arg Phe Ser Arg His Ser
 305 310 315 320
 Thr Ile Leu Asp Tyr Ile Asn Val Val Pro Thr Ala Gly Pro Leu Val
 325 330 335
 Gln Lys Arg Asn Gln Lys Ala Thr Pro Ser Ser Pro Arg Thr Pro Leu
 340 345 350
 Pro Pro Gly Ala Pro Ser Pro Glu Ser Lys Lys Asn Gln Lys Lys Gln
 355 360 365
 Tyr Gln Leu Pro Ser Phe Pro Glu Pro Lys Ser Ser Thr Gln Ala Pro
 370 375 380
 Glu Ser Gln Glu Ser Gln Glu Glu Leu His Tyr Ala Thr Leu Asn Phe
 385 390 395 400
 Pro Gly Val Arg Pro Arg Pro Glu Ala Arg Met Pro Lys Gly Thr Gln
 405 410 415
 Ala Asp Tyr Ala Glu Val Lys Phe Gln
 420 425

<210> 3450

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3450

Met Val Thr Leu Arg Ser Lys Leu Gly Pro Leu Glu Ile Gln Gln Phe
 1 5 10 15
 Ala Met Leu Leu Arg Glu Tyr Arg Leu Gly Leu Pro Ile Gln Asp Tyr
 20 25 30
 Cys Thr Gly Leu Leu Lys Leu Tyr Gly Asp Arg Arg Lys Phe Leu Leu
 35 40 45
 Leu Gly Met Arg Pro Phe Ile Pro Asp Gln Asp Ile Gly Tyr Phe Glu
 50 55 60
 Gly Phe Leu Glu Gly Val Gly Ile Arg Glu Gly Gly Ile Leu Thr Asp
 65 70 75 80
 Ser Phe Gly Arg Ile Lys Arg Ser Met Ser Ser Thr Ser Ala Ser Ala
 85 90 95
 Val Arg Ser Tyr Asp Gly Ala Ala Gln Arg Pro Glu Ala Gln Ala Phe
 100 105 110
 His Arg Leu Leu Ala Asp Ile Thr His Asp Ile Glu Ala Leu Ala Pro
 115 120 125
 Asp Asp Asp Asp Asp Asp Glu Asp Glu Pro Arg Gly Ser Arg Gly Gly
 130 135 140
 Ser Asp Ala Ala Glu Asp Asn Tyr Leu
 145 150

<210> 3451

<211> 436

<212> PRT

<213> Homo sapiens

<400> 3451

Met Arg Arg Asp Val Asn Gly Val Thr Lys Ser Arg Phe Glu Met Phe
 1 5 10 15

Ser Asn Ser Asp Glu Ala Val Ile Asn Lys Lys Leu Pro Lys Glu Leu
 20 25 30
 Leu Leu Arg Ile Phe Ser Phe Leu Asp Val Val Thr Leu Cys Arg Cys
 35 40 45
 Ala Gln Val Ser Arg Ala Trp Asn Val Leu Ala Leu Asp Gly Ser Asn
 50 55 60
 Trp Gln Arg Ile Asp Leu Phe Asp Phe Gln Arg Asp Ile Glu Gly Arg
 65 70 75 80
 Val Val Glu Asn Ile Ser Lys Arg Cys Gly Gly Phe Leu Arg Lys Leu
 85 90 95
 Ser Leu Arg Gly Cys Leu Gly Val Gly Asp Asn Ala Leu Arg Thr Phe
 100 105 110
 Ala Gln Asn Cys Arg Asn Ile Glu Val Leu Asn Leu Asn Gly Cys Thr
 115 120 125
 Lys Thr Thr Asp Ala Thr Cys Thr Ser Leu Ser Lys Phe Cys Ser Lys
 130 135 140
 Leu Arg His Leu Asp Leu Ala Ser Cys Thr Ser Ile Thr Asn Met Ser
 145 150 155 160
 Leu Lys Ala Leu Ser Glu Gly Cys Pro Leu Leu Glu Gln Leu Asn Ile
 165 170 175
 Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile Gln Ala Leu Val Arg
 180 185 190
 Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys Gly Cys Thr Gln Leu
 195 200 205
 Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His Cys Pro Glu Leu Val
 210 215 220
 Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr Asp Glu Gly Leu Ile
 225 230 235 240
 Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser Leu Cys Ala Ser Gly
 245 250 255
 Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala Leu Gly Gln Asn Cys
 260 265 270
 Pro Arg Leu Arg Ile Leu Glu Val Ala Arg Cys Ser Gln Leu Thr Asp
 275 280 285
 Val Gly Phe Thr Thr Leu Ala Arg Asn Cys His Glu Leu Glu Arg Met
 290 295 300

[illegible]

<210> 3452

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3452

Met	Gly	Ala	Thr	Glu	Ala	Ala	Gly	Gly	Ala	Ala	Val	Ser	Arg	Ala	Arg
1				5					10					15	
Asn	Gln	Thr	Trp	Thr	Ala	Leu	Gly	Pro	Gly	Cys	Arg	Asp	Gln	Val	Thr
			20					25					30		
Arg	Ser	Pro	Glu	Gly	Cys	Trp	Pro	Arg	Ser	Gln	Asn	Pro	Gly	Ala	Ala
		35					40					45			
Arg	Thr	Ile	Gly	Ser	Ser	Leu	Tyr	Gly	Thr	Gly	Asp	Arg	His	Pro	Ala
	50					55					60				
Leu	Val	Pro	Cys	Ala	Val	Ala	Asp	Gly	Glu	Thr	Glu	Ala	Ser	Ser	Leu
65				70						75				80	

Pro Gly Ile Thr Val Ile Leu Glu Gln Arg Gly Pro Glu Arg Ala Cys
 85 90 95
 Ser Trp Pro Lys Val Thr Gln
 100

<210> 3453

<211> 319

<212> PRT

<213> Homo sapiens

<400> 3453

Met Ala Ser Asp Asp Phe Asp Ile Val Ile Glu Ala Met Leu Glu Ala
 1 5 10 15
 Pro Tyr Lys Lys Glu Glu Asp Glu Gln Gln Arg Lys Glu Val Lys Lys
 20 25 30
 Asp Tyr Pro Ser Asn Thr Thr Ser Ser Thr Ser Asn Ser Gly Asn Glu
 35 40 45
 Thr Ser Gly Ser Ser Thr Ile Gly Glu Thr Ser Lys Lys Lys Arg Ser
 50 55 60
 Arg Ser His Asn Lys Ser Arg Asp Arg Lys Arg Ser Arg Ser Arg Asp
 65 70 75 80
 Arg Asp Arg Tyr Arg Arg Arg Asn Ser Arg Ser Arg Ser Pro Gly Arg
 85 90 95
 Gln Cys Arg His Arg Ser Arg Ser Trp Asp Arg Arg His Gly Ser Glu
 100 105 110
 Ser Arg Ser Arg Asp His Arg Arg Glu Asp Arg Val His Tyr Arg Ser
 115 120 125
 Pro Pro Leu Ala Thr Gly Tyr Arg Tyr Gly His Ser Lys Ser Pro His
 130 135 140
 Phe Arg Glu Lys Ser Pro Val Arg Glu Pro Val Asp Asn Leu Ser Pro
 145 150 155 160
 Glu Glu Arg Asp Ala Arg Thr Val Phe Cys Met Gln Leu Ala Ala Arg
 165 170 175
 Ile Arg Pro Arg Asp Leu Glu Asp Phe Phe Ser Ala Val Gly Lys Val
 180 185 190

Arg Asp Val Cys Ile Ile Ser Asp Arg Asn Ser Arg Arg Ser Lys Gly
 195 200 205
 Ile Ala Tyr Val Glu Phe Cys Glu Ile Gln Ser Val Pro Leu Ala Ile
 210 215 220
 Gly Leu Thr Gly Gln Arg Leu Leu Gly Val Pro Ile Ile Val Gln Ala
 225 230 235 240
 Ser Gln Ala Glu Lys Asn Arg Leu Ala Ala Met Ala Asn Asp Leu Gln
 245 250 255
 Lys Gly Asn Gly Gly Pro Met Arg Leu Tyr Val Gly Ser Leu His Phe
 260 265 270
 Asn Ile Thr Glu Asp Met Leu Arg Gly Ile Phe Glu Pro Phe Gly Lys
 275 280 285
 Ile Asp Asn Ile Val Leu Met Lys Asp Ser Asp Thr Gly Arg Ser Lys
 290 295 300
 Gly Tyr Gly Phe Ile Thr Leu His Pro Pro Pro Leu Gly Thr Val
 305 310 315

<210> 3454

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3454

Met Gly Lys Arg Asp Pro Arg Ala Gln Leu Phe Leu Pro Ser Ala Gly
 1 5 10 15
 Leu Leu Gln Thr Ser Arg Leu His Cys Arg Leu Arg His Phe Leu Ala
 20 25 30
 Glu Pro Pro Ser Phe Leu Leu Ser Phe Gln Leu Leu Leu His Cys
 35 40 45
 Pro Phe Leu Ser Pro Leu Ser Cys Thr Ser Ala Ser Ile Leu Ala Ser
 50 55 60
 Ser Ser Leu Lys Thr Gln Pro Asp Thr Ile Ser Ile Ile Thr Leu Phe
 65 70 75 80
 Ile Ser Gln Trp Arg Arg Trp Gly Ser Arg Gln Glu Arg Gln Ser Val
 85 90 95

Asn Met Leu Pro Leu Lys Phe Cys Thr Ala Leu Ser Leu Leu Gly Leu
 100 105 110

Trp Ala Lys Ile Lys Cys Lys Ser Leu Tyr Tyr Ser

115

120

<210> 3455

<211> 375

<212> PRT

<213> Homo sapiens

<400> 3455

Met Glu Asp Ser Glu Ala Leu Gly Phe Glu His Met Gly Leu Asp Pro
 1 5 10 15

Arg Leu Leu Gln Ala Val Thr Asp Leu Gly Trp Ser Arg Pro Thr Leu
 20 25 30

Ile Gln Glu Lys Ala Ile Pro Leu Ala Leu Glu Gly Lys Asp Leu Leu
 35 40 45

Ala Arg Ala Arg Thr Gly Ser Gly Lys Thr Ala Ala Tyr Ala Ile Pro
 50 55 60

Met Leu Gln Leu Leu Leu His Arg Lys Ala Thr Gly Pro Val Val Glu
 65 70 75 80

Gln Ala Val Arg Gly Leu Val Leu Val Pro Thr Lys Glu Leu Ala Arg
 85 90 95

Gln Ala Gln Ser Met Ile Gln Gln Leu Ala Thr Tyr Cys Ala Arg Asp
 100 105 110

Val Arg Val Ala Asn Val Ser Ala Ala Glu Asp Ser Val Ser Gln Arg
 115 120 125

Ala Val Leu Met Glu Lys Pro Asp Val Val Val Gly Thr Pro Ser Arg
 130 135 140

Ile Leu Ser His Leu Gln Gln Asp Ser Leu Lys Leu Arg Asp Ser Leu
 145 150 155 160

Glu Leu Leu Val Val Asp Glu Ala Asp Leu Leu Phe Ser Phe Gly Phe
 165 170 175

Glu Glu Glu Leu Lys Ser Leu Leu Cys His Leu Pro Arg Ile Tyr Gln

180	185	190
Ala Phe Leu Met Ser Ala Thr Phe Asn Glu Asp Val Gln Ala Leu Lys		
195	200	205
Glu Leu Ile Leu His Asn Pro Val Thr Leu Lys Leu Gln Glu Ser Gln		
210	215	220
Leu Pro Gly Pro Asp Gln Leu Gln Gln Phe Gln Val Val Cys Glu Thr		
225	230	235
Glu Glu Asp Lys Phe Leu Leu Leu Tyr Ala Leu Leu Lys Leu Ser Leu		
245	250	255
Ile Arg Gly Lys Ser Leu Leu Phe Val Asn Thr Leu Glu Arg Ser Tyr		
260	265	270
Arg Leu Arg Leu Phe Leu Glu Gln Phe Ser Ile Pro Thr Cys Val Leu		
275	280	285
Asn Gly Glu Leu Pro Leu Arg Ser Arg Cys His Ile Ile Ser Gln Phe		
290	295	300
Asn Gln Gly Phe Tyr Asp Cys Val Ile Ala Thr Asp Ala Glu Val Leu		
305	310	315
Gly Ala Pro Val Lys Gly Lys Arg Arg Gly Arg Gly Pro Lys Gly Asp		
325	330	335
Lys Ala Ser Asp Pro Glu Ala Gly Val Ala Arg Gly Ile Asp Phe His		
340	345	350
His Val Ser Ala Val Leu Asn Phe Asp Leu Pro Pro Thr Pro Glu Ala		
355	360	365
Tyr Ile His Arg Ala Gly Arg		
370	375	

<210> 3456

<211> 309

<212> PRT

<213> Homo sapiens

<400> 3456

Met Leu Pro Glu Asp Ser Gly Gly Ser Pro Asp Ala Ala Ala Ser Asp
1 5 10 15
Lys His Ile Gln Trp Leu Leu Gly Ala Asp Gly Glu Val Trp Val Trp

20	25	30
Ile Met Gly Glu Gly Pro Gly Asp Lys Pro Tyr Glu Glu Ile Ser Glu		
35	40	45
Glu Leu Ile Ala Glu Arg Ala Arg Leu Gln Ala Gln Arg Glu Ala Glu		
50	55	60
Glu Leu Trp Arg Gln Lys Glu Ala Glu Ile Thr Lys Lys Phe Arg Asp		
65	70	75
80		
Ala Leu Ala Asn Glu Lys Ala Arg Ile Leu Ala Glu Lys Trp Lys Val		
85	90	95
Glu Met Glu Asp Arg Lys Ala Ala Lys Val Leu Glu Glu Arg Ile His		
100	105	110
Glu Glu Phe Lys Arg Lys Glu Glu Glu Glu Arg Lys Arg Gly Glu Glu		
115	120	125
Gln Ile Arg Leu Gln Glu Glu Gln Arg Ala Lys Glu Leu Tyr Trp Thr		
130	135	140
Leu Lys Gln Ala Gln Leu His Cys Gln Ala Ser Glu Lys Glu Glu Arg		
145	150	155
160		
Glu Trp Glu Glu Gln Leu Arg Arg Ser Lys Ala Ala Asp Glu Glu Arg		
165	170	175
Ser Arg Arg Ala Gln Arg Ala Arg Asp Glu Tyr Arg His His Ser Leu		
180	185	190
Arg Ala Ile Gln Lys Gly Thr Val Ala Gly Leu Ser Ser Met Phe Arg		
195	200	205
Glu Leu Gly Gln Ser His Glu Gln Glu Ala Arg Leu Tyr His His Leu		
210	215	220
Pro Asp Pro Gly Leu Pro Gln Pro Leu Ala Leu Pro Val Ser Arg Thr		
225	230	235
240		
Trp Glu Arg Pro Leu Arg Pro Val Ser Arg Asp Val Ile Val Arg Trp		
245	250	255
Phe Lys Glu Glu Gln Leu Pro Arg Arg Ala Gly Phe Glu Arg Asn Thr		
260	265	270
Lys Phe Ile Ala Pro Trp Phe His Gly Gly Asn Tyr His Cys Phe Arg		
275	280	285
Arg Arg Val Thr Ser Gly Thr Leu Arg Thr Glu Gly Gln Pro Thr Arg		
290	295	300
Leu Pro Ser Val Val		

305

<210> 3457

<211> 235

<212> PRT

<213> Homo sapiens

<400> 3457

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Met Gln Ala Ser Leu Leu Leu Ser Cys Leu Pro Leu Ser Ser Leu Ser
  1             5             10             15
Thr Val Ile Val Pro Pro Phe Leu Gln Val Asn Asp Leu Asp Gly Tyr
      20             25             30
Asn Arg Thr Ala Leu His Tyr Ala Ala Glu Lys Asp Glu Ala Cys Val
      35             40             45
Glu Val Leu Leu Glu Tyr Gly Ala Asn Pro Asn Ala Leu Asp Gly Asn
      50             55             60
Arg Asp Thr Pro Leu His Trp Ala Ala Phe Lys Asn Asn Ala Glu Cys
      65             70             75             80
Val Arg Ala Leu Leu Glu Ser Gly Ala Ser Val Asn Ala Leu Asp Tyr
      85             90             95
Asn Asn Asp Thr Pro Leu Ser Trp Ala Ala Met Lys Gly Asn Leu Glu
      100            105            110
Ser Val Ser Ile Leu Leu Asp Tyr Gly Ala Glu Val Arg Val Ile Asn
      115            120            125
Leu Ile Gly Gln Thr Pro Ile Ser Arg Leu Val Ala Leu Leu Val Arg
      130            135            140
Gly Leu Gly Thr Glu Lys Glu Asp Ser Cys Phe Glu Leu Leu His Arg
      145            150            155            160
Ala Val Gly His Phe Glu Leu Arg Lys Asn Gly Thr Met Pro Arg Glu
      165            170            175
Val Ala Arg Asp Pro Gln Leu Cys Glu Lys Leu Thr Val Leu Cys Ser
      180            185            190
Ala Pro Gly Thr Leu Lys Thr Leu Ala Arg Tyr Ala Val Arg Arg Ser
      195            200            205
Leu Gly Leu Gln Tyr Leu Pro Asp Ala Val Lys Gly Leu Pro Leu Pro

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210 215 220
 Ala Ser Leu Lys Glu Tyr Leu Leu Leu Leu Glu
 225 230 235

<210> 3458

<211> 123

<212> PRT

<213> Homo sapiens

<400> 3458

Met Gln Gly Met Gly Leu Gly Leu Ser Ser Val Phe Ala Leu Cys Leu
 1 5 10 15
 Gly His Thr Ser Ser Phe Cys Glu Ser Val Val Phe Ala Ser Ala Ser
 20 25 30
 Ile Gly Leu Gln Thr Phe Asn His Ser Gly Ile Ser Val Asn Ile Gln
 35 40 45
 Asp Leu Ala Pro Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr
 50 55 60
 Ala Gly Ala Leu Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu
 65 70 75 80
 Met Glu Thr Thr Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile
 85 90 95
 Ile Ser Asn Leu Gly Leu Cys Thr Phe Leu Val Phe Gly Gln Ala Gln
 100 105 110
 Arg Val Asp Leu Ser Ser Thr His Glu Asp Leu
 115 120

<210> 3459

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3459

Met Lys Val Lys Gln Ala Leu Met Val Thr Leu Thr Gln Gln Asp Arg

1	5	10	15
Tyr Pro Tyr Gln Lys Gly Ile Ser Gly His Arg Asp Arg Arg Ala Arg			
20	25	30	
Val Glu Thr Pro Glu Asp Glu Asp Gly Ile Tyr Gln Ala Gly Glu Trp			
35	40	45	
Pro Gln Glu Lys Arg Ala Leu Pro Thr Pro Arg Pro Arg Thr Ser Ser			
50	55	60	
Leu Gln Ser Arg Val Lys Arg Asn Phe His His Leu Ser Cys Pro Val			
65	70	75	80
Cys Gly Thr Leu Pro Arg Gln Pro Glu Gln Thr Val Gln Ala Pro Lys			
85	90	95	
Thr Leu Ser Ala Cys Val Ile Leu Ala Arg Thr Thr Leu Pro Glu Ala			
100	105	110	
Thr Ala Met Ser Lys Leu Ile Val Arg Phe Leu Pro Ala Thr Trp Phe			
115	120	125	

<210> 3460

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3460

Met Leu Arg Leu Arg Lys Gln Gly His Val Arg Arg Arg Gly Lys Ser			
1	5	10	15
Ile Gly Glu Asn Lys Asp Thr Gly Gly Asp Ala Thr Trp Arg Ser Pro			
20	25	30	
Glu Ser Arg Glu Thr Asn Glu Pro Arg Thr Gln Met Ala Lys Lys Lys			
35	40	45	
Asn Glu Arg Ile Cys Lys Arg Gln His Ser Asn Met Pro Asn Lys Ser			
50	55	60	
Arg Val Leu Val Phe Lys His Leu Tyr Leu Pro Arg Val Thr Arg Gln			
65	70	75	80
Leu Ile Ser Phe His Ile Cys Ser Arg Phe Val Phe Arg Asn Lys Thr			
85	90	95	
His Val Leu Lys Ser Cys Leu Tyr Val Ala Pro Val Leu Leu Pro Pro			

100	105	110
Pro Pro Val Leu Lys Ser Ile Ser Ala Leu Leu Ile Tyr Gly		
115	120	125

<210> 3461

<211> 521

<212> PRT

<213> Homo sapiens

<400> 3461

Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Val Val Thr Leu Lys Gly			
1	5	10	15
Val His Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys			
20	25	30	
Pro Gly Gly Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe			
35	40	45	
Ser Asn Thr Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu			
50	55	60	
Glu Trp Val Gly Arg Ile Ser Thr Asp Ser Glu Gly Ala Thr Val Asp			
65	70	75	80
Tyr Ala Ala Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser			
85	90	95	
Lys Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Gln Val Glu Asp Thr			
100	105	110	
Ala Val Tyr Tyr Cys Ser Thr Gly Pro Ser Arg Val Pro Gly Thr Gln			
115	120	125	
Arg Tyr Phe Asp Phe Trp Gly Arg Gly Thr Arg Val Thr Val Ser Ser			
130	135	140	
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg			
145	150	155	160
Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr			
165	170	175	
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser			
180	185	190	
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser			

195	200	205
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr		
210	215	220
Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys		
225	230	235
Arg Val Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro		
245	250	255
Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg		
260	265	270
Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys		
275	280	285
Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro		
290	295	300
Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys		
305	310	315
Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val		
325	330	335
Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr		
340	345	350
Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu		
355	360	365
Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His		
370	375	380
Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys		
385	390	395
Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln		
405	410	415
Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met		
420	425	430
Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro		
435	440	445
Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Asn		
450	455	460
Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu		
465	470	475
Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile		

485 490 495
 Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln
 500 505 510
 Lys Ser Leu Ser Leu Ser Pro Gly Lys
 515 520

<210> 3462

<211> 551

<212> PRT

<213> Homo sapiens

<400> 3462

Met Ile Ser Pro Asp Pro Arg Pro Ser Pro Gly Leu Ala Arg Trp Ala
 1 5 10 15
 Glu Ser Tyr Glu Ala Lys Cys Glu Arg Arg Gln Glu Ile Arg Glu Ser
 20 25 30
 Arg Arg Cys Arg Pro Asn Val Thr Thr Cys Arg Gln Val Gly Lys Thr
 35 40 45
 Leu Arg Ile Gln Gln Arg Glu Gln Leu Gln Arg Ala Arg Leu Gln Gln
 50 55 60
 Phe Phe Arg Arg Arg Asn Leu Glu Leu Glu Glu Lys Gly Lys Ala Gln
 65 70 75 80
 His Pro Gln Ala Arg Glu Gln Gly Pro Ser Arg Arg Pro Gly Gln Val
 85 90 95
 Thr Val Leu Lys Glu Pro Leu Ser Cys Ala Arg Arg Ile Ser Ser Pro
 100 105 110
 Arg Glu Gln Val Thr Gly Thr Ser Ser Glu Val Phe Pro Ala Gln His
 115 120 125
 Pro Pro Pro Ser Gly Ile Cys Arg Asp Leu Ser Asp His Leu Ser Ser
 130 135 140
 Gln Ala Gly Gly Leu Pro Pro Gln Asp Thr Pro Ile Lys Lys Pro Pro
 145 150 155 160
 Lys His His Arg Gly Thr Gln Thr Lys Ala Glu Gly Pro Thr Ile Lys
 165 170 175
 Asn Asp Ala Ser Gln Gln Thr Asn Tyr Gly Val Ala Val Leu Asp Lys

180	185	190
Glu Ile Ile Gln Leu Ser Asp Tyr Leu Lys Glu Ala Leu Gln Arg Glu		
195	200	205
Leu Val Leu Lys Gln Lys Met Val Ile Leu Gln Asp Leu Leu Ser Thr		
210	215	220
Leu Ile Gln Ala Ser Asp Ser Ser Trp Lys Gly Gln Leu Asn Glu Asp		
225	230	235
Lys Leu Lys Gly Lys Leu Arg Ser Leu Glu Asn Gln Leu Tyr Thr Cys		
245	250	255
Thr Gln Lys Tyr Ser Pro Trp Gly Met Lys Lys Val Leu Leu Glu Met		
260	265	270
Glu Asp Gln Lys Asn Ser Tyr Glu Gln Lys Ala Lys Glu Ser Leu Gln		
275	280	285
Lys Val Leu Glu Glu Lys Met Asn Ala Glu Gln Gln Leu Gln Ser Thr		
290	295	300
Gln Arg Ser Leu Ala Leu Ala Glu Gln Lys Cys Glu Glu Trp Arg Ser		
305	310	315
Gln Tyr Glu Ala Leu Lys Glu Asp Trp Arg Thr Leu Gly Thr Gln His		
325	330	335
Arg Glu Leu Glu Ser Gln Leu His Val Leu Gln Ser Lys Leu Gln Gly		
340	345	350
Ala Asp Ser Arg Asp Leu Gln Met Asn Gln Ala Leu Arg Phe Leu Glu		
355	360	365
Asn Glu His Gln Glu Leu Gln Ala Lys Ile Glu Cys Leu Gln Gly Asp		
370	375	380
Arg Asp Leu Cys Ser Leu Asp Thr Gln Asp Leu Gln Asp Gln Leu Lys		
385	390	395
Arg Ser Glu Ala Glu Lys Leu Thr Leu Val Thr Arg Val Gln Gln Leu		
405	410	415
Gln Gly Leu Leu Gln Asn Gln Ser Leu Gln Leu Gln Glu Gln Glu Lys		
420	425	430
Leu Leu Thr Lys Lys Asp Gln Ala Leu Pro Val Trp Ser Pro Lys Ser		
435	440	445
Phe Pro Asn Glu Val Glu Pro Glu Gly Thr Gly Lys Glu Lys Asp Trp		
450	455	460

Asp Leu Arg Asp Gln Leu Gln Lys Lys Thr Leu Gln Leu Gln Ala Lys
 465 470 475 480
 Glu Lys Glu Cys Arg Glu Leu His Ser Glu Leu Gly Asn Leu Ser Asp
 485 490 495
 Glu Tyr Leu Ser Cys Leu Arg Lys Leu Gln His Cys Arg Glu Glu Leu
 500 505 510
 Asn Gln Ser Gln Gln Leu Pro Pro Arg Arg Gln Cys Gly Arg Trp Leu
 515 520 525
 Pro Val Leu Met Val Val Ile Ala Ala Ala Leu Ala Val Phe Leu Ala
 530 535 540
 Asn Lys Asp Asn Leu Met Ile
 545 550

<210> 3463

<211> 1047

<212> PRT

<213> Homo sapiens

<400> 3463

Met Ala Glu Lys Arg Pro Leu Arg Thr Leu Gly Pro Val Met Tyr Gly
 1 5 10 15
 Lys Leu Pro Arg Leu Glu Thr Asp Ser Gly Leu Glu His Ser Leu Pro
 20 25 30
 His Ser Val Gly Asn Gln Asp Pro Cys Thr Tyr Lys Gly Ser Tyr Phe
 35 40 45
 Ser Cys Pro Met Ala Gly Thr Pro Lys Ala Glu Ser Glu Gln Leu Ala
 50 55 60
 Ser Trp Thr Pro Tyr Pro Pro Leu Tyr Ser Thr Gly Met Ala Gly Pro
 65 70 75 80
 Pro Leu Gln Ala Asp Asn Leu Leu Thr Asn Cys Leu Phe Tyr Arg Ser
 85 90 95
 Pro Ala Glu Gly Pro Glu Lys Met Gln Asp Ser Ser Pro Val Glu Leu
 100 105 110
 Leu Pro Phe Ser Pro Gln Ala His Ser Tyr Pro Gly Pro Pro Leu Ala
 115 120 125

Ala Pro Lys Pro Val Tyr Arg Asn Pro Leu Cys Tyr Gly Leu Ser Thr
 130 135 140
 Cys Leu Gly Glu Gly Ala Val Lys Arg Pro Leu Asp Val Asp Trp Thr
 145 150 155 160
 Leu Ala Thr Gly Pro Leu Leu Pro Ser Ala Asp Pro Pro Cys Ser Leu
 165 170 175
 Ala Pro Ala Pro Ser Lys Gly Gln Thr Leu Asp Gly Thr Phe Leu Arg
 180 185 190

 Gly Val Pro Ala Glu Gly Ser Ser Lys Asp Ser Ser Gly Ser Phe Ser
 195 200 205
 Pro Cys Gln Pro Phe Leu Glu Lys Tyr Gln Thr Ile His Ser Thr Gly
 210 215 220
 Phe Leu Ala Ser Arg Tyr Thr Gly Pro Tyr Pro Arg Asn Ser Lys Gln
 225 230 235 240
 Ala Met Ser Glu Gly Pro Ser Ser Pro Trp Thr Gln Leu Ala Gln Pro
 245 250 255
 Leu Gly Pro Pro Cys Gln Asp Thr Gly Pro Thr His Tyr Pro Pro Pro
 260 265 270
 His His Pro Pro Pro His Pro Pro Gln Ala Leu Pro Cys Pro Pro Ala
 275 280 285
 Cys Arg His Pro Glu Lys Gln Gly Ser Tyr Ser Pro Ala Leu Pro Leu
 290 295 300
 Gln Pro Leu Gly Gly His Lys Gly Thr Gly Tyr Gln Ala Gly Gly Leu
 305 310 315 320
 Gly Ser Pro Tyr Leu Arg Gln Gln Ala Ala Gln Ala Pro Tyr Ile Pro
 325 330 335
 Pro Leu Gly Leu Asp Ala Tyr Pro Tyr Pro Ser Ala Pro Leu Pro Ala
 340 345 350
 Pro Ser Pro Gly Leu Lys Leu Glu Pro Pro Leu Thr Pro Arg Cys Pro
 355 360 365
 Leu Asp Phe Ala Pro Gln Thr Leu Ser Phe Pro Tyr Ala Arg Asp Asp
 370 375 380
 Leu Ser Leu Tyr Gly Ala Ser Pro Gly Leu Gly Gly Thr Pro Pro Ser
 385 390 395 400
 Gln Asn Asn Val Arg Ala Val Pro Gln Pro Gly Ala Phe Gln Arg Ala

	405	410	415
Cys Gln Pro Leu Pro Ala Ser Gln Pro Cys Ser Glu Pro Val Arg Pro			
420	425	430	
Ala Gln Glu Ala Glu Glu Lys Thr Trp Leu Pro Ser Cys Arg Lys Glu			
435	440	445	
Lys Leu Gln Pro Arg Leu Ser Glu His Ser Gly Pro Pro Ile Val Ile			
450	455	460	
Arg Asp Ser Pro Val Pro Cys Thr Pro Pro Ala Leu Pro Pro Cys Ala			
465	470	475	480
Arg Glu Cys Gln Ser Leu Pro Gln Lys Glu Asp Ala Arg Pro Pro Ser			
485	490	495	
Ser Pro Pro Met Pro Val Ile Asp Asn Val Phe Ser Leu Ala Pro Tyr			
500	505	510	
Arg Asp Tyr Leu Asp Val Pro Ala Pro Glu Ala Thr Thr Glu Pro Asp			
515	520	525	
Ser Ala Thr Ala Glu Pro Asp Ser Ala Pro Ala Thr Ser Glu Gly Gln			
530	535	540	
Asp Lys Gly Cys Arg Gly Thr Leu Pro Ala Gln Glu Gly Pro Ser Gly			
545	550	555	560
Ser Lys Pro Leu Arg Gly Ser Leu Lys Glu Glu Val Ala Leu Asp Leu			
565	570	575	
Ser Val Arg Lys Pro Thr Ala Glu Ala Ser Pro Val Lys Ala Ser Arg			
580	585	590	
Ser Val Glu His Ala Lys Pro Thr Ala Ala Met Asp Val Pro Asp Val			
595	600	605	
Gly Asn Met Val Ser Asp Leu Pro Gly Leu Lys Lys Ile Asp Thr Glu			
610	615	620	
Ala Pro Gly Leu Pro Gly Val Pro Val Thr Thr Asp Ala Met Pro Arg			
625	630	635	640
Thr Asn Phe His Ser Ser Val Ala Phe Met Phe Arg Lys Phe Lys Ile			
645	650	655	
Leu Arg Pro Ala Pro Leu Pro Ala Ala Val Val Pro Ser Thr Pro Thr			
660	665	670	
Ser Ala Pro Ala Pro Thr Gln Pro Ala Pro Thr Pro Thr Ser Gly Pro			
675	680	685	
Ile Gly Leu Arg Ile Leu Ala Gln Gln Pro Leu Ser Val Thr Cys Phe			

690	695	700	
Ser Leu Ala Leu Pro	Ser Pro Pro Ala Val	Ala Val Ala Ser Pro Ala	
705	710	715	720
Pro Ala Pro Ala Pro	Ser Pro Ala Pro Ala Arg	Ala Gln Ala Pro Ala	
	725	730	735
Ser Ala Arg Asp Pro	Ala Pro Ala Pro Ala Pro	Val Ala Gly Pro Ala	
	740	745	750
Pro Ala Ser Thr Ser	Ala Pro Gly Asp Ser	Leu Glu Gln His Phe Thr	
	755	760	765
Gly Leu His Ala Ser	Leu Cys Asp Ala Ile	Ser Gly Ser Val Ala His	
	770	775	780
Ser Pro Pro Glu Lys	Leu Arg Glu Trp Leu	Glu Thr Ala Gly Pro Trp	
	785	790	795
Gly Gln Ala Ala Trp	Gln Asp Cys Gln Gly	Val Gln Gly Leu Leu Ala	
	805	810	815
Lys Leu Leu Ser Gln	Leu Gln Arg Phe Asp	Arg Thr His Arg Cys Pro	
	820	825	830
Phe Pro His Val Val	Arg Ala Gly Ala Ile	Phe Val Pro Ile His Leu	
	835	840	845
Val Lys Glu Arg Leu	Phe Pro Arg Leu Pro	Pro Ala Ser Val Asp His	
	850	855	860
Val Leu Gln Glu His	Arg Val Glu Leu Arg	Pro Thr Thr Leu Ser Glu	
	865	870	875
Glu Arg Ala Leu Arg	Glu Leu Ala Leu Pro	Gly Cys Thr Ser Arg Met	
	885	890	895
Leu Lys Leu Leu Ala	Leu Arg Gln Leu Pro	Asp Ile Tyr Pro Asp Leu	
	900	905	910
Leu Gly Leu Gln Trp	Arg Asp Cys Val Arg	Arg Gln Leu Gly Asp Phe	
	915	920	925
Asp Thr Glu Ala Gly	Ala Val Ser Ser Ser	Glu Pro Thr Val Ala Arg	
	930	935	940
Asp Glu Pro Glu Ser	Leu Ala Leu Ala Gln	Lys Ser Pro Ala Pro Lys	
	945	950	955
Val Arg Lys Pro Gly	Arg Lys Pro Pro Thr	Pro Gly Pro Glu Lys Ala	
	965	970	975
Glu Ala Ala Ala Gly	Glu Glu Ser Cys Gly	Ala Ser Pro Thr Pro Ala	

980 985 990
 Thr Ser Ala Ser Pro Pro Gly Pro Thr Leu Lys Ala Arg Phe Arg Ser
 995 1000 1005
 Leu Leu Glu Thr Ala Trp Leu Asn Gly Leu Ala Leu Pro Thr Trp Gly
 1010 1015 1020
 His Lys Ser Ser Arg Pro Asp Gln Pro Ser Pro Cys Pro Gln Leu Leu
 1025 1030 1035 1040
 Asp Ser Gln Ser His His Leu
 1045

<210> 3464

<211> 358

<212> PRT

<213> Homo sapiens

<400> 3464

Met Gln Arg Ser Pro His Ala Ala Glu Thr Gly Val Pro Thr Gly Ser
 1 5 10 15
 Ala Lys Val Thr Thr Thr Gln Gln Arg Gln Ala Ser Cys Gly Gln Cys
 20 25 30
 Arg Gly His His His Ala Ala Glu Thr Gly Val Leu Trp Ala Val Gln
 35 40 45
 Arg Ser Pro Pro Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu
 50 55 60
 Val Thr Pro Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu Val
 65 70 75 80
 Thr Thr Thr Gln Gln Arg Arg Ala Ser Pro Gln Ala Val Gln Arg Ser
 85 90 95
 Pro Pro Arg Ser Arg Asp Arg Arg Pro His Gly Gln Cys Lys Gly His
 100 105 110
 His His Thr Ala Glu Ile Gly Val Leu Trp Ala Met Gln Arg Ser Pro
 115 120 125
 Pro Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu Val Thr Pro
 130 135 140
 Arg Ser Arg Asp Arg Arg Pro Val Gly Asp Ala Glu Val Thr Thr Thr

145	150	155	160
Gln Gln Arg Arg Ala Ser Pro Gln Ala Val Gln Arg Ser Pro Pro His			
	165	170	175
Ser Arg Asp Arg Arg Pro His Gly Gln Cys Arg Gly His His His Ala			
	180	185	190
Ala Glu Thr Gly Val Pro Thr Gly Ser Ala Glu Val Thr Thr Thr Gln			
	195	200	205
Gln Arg Gln Ala Ser Cys Gly Gln Cys Arg Gly His His His Ala Ala			
	210	215	220
Glu Thr Gly Val Leu Trp Ala Val Gln Arg Ser Pro Pro Arg Ser Arg			
225	230	235	240
Asp Gly Arg Pro His Arg Gln Cys Arg Gly His His His Thr Ala Glu			
	245	250	255
Thr Gly Val Leu Trp Ala Val Gln Arg Ser Pro Pro Arg Ser Arg Asp			
	260	265	270
Arg Arg Pro Val Gly Ser Ala Glu Val Thr Thr Leu Ser Gln Thr Val			
	275	280	285
Leu Gly Leu Pro Trp Val Glu His Arg Met Lys Thr Met Cys Phe Glu			
	290	295	300
Pro Trp Lys Asp Asn Gln Pro Ser Gln Ser Gln Ser Leu Lys Gln Ala			
305	310	315	320
Ala Pro Arg Ala Gln Leu Gln Glu Ala Ala Ser Ser Arg Gly Leu Gln			
	325	330	335
Gln Gly Gly Gly Arg Cys Val Pro Ser Val Ala Ser Trp Cys Pro Leu			
	340	345	350
Met Ser Arg Ser Val Arg			
	355		

<210> 3465

<211> 336

<212> PRT

<213> Homo sapiens

<400> 3465

Met Ser Arg Ser Val Leu Glu Ala Leu Thr Ser Ser Thr Ala Met Gln

1	5	10	15
Cys Val Pro Ser Asp Gly Cys Ala Met Leu Leu Arg Val Arg Ala Ser			
20	25	30	
Ile Thr Leu His Glu Arg Leu Arg Gly Leu Glu Ala Cys Ala Met Ser			
35	40	45	
Leu Asp Thr Gln Glu Thr Gln Cys Gln Ser Val Trp Val Ala Arg Ala			
50	55	60	
Ser His Arg Gln Gln Arg Gly Arg Gln Leu Gln Val His Phe Gly Cys			
65	70	75	80
Phe Ala Val Ser Val Ala Gln His Leu Tyr Val Thr Leu Arg Thr Ile			
85	90	95	
Pro His Phe Cys Gly Val Gln Leu Asp Gln Arg His Leu Val Glu Ala			
100	105	110	
Gly Lys Leu Ser Tyr Trp Val Asp Arg Arg Arg Lys Ala Ile Leu Val			
115	120	125	
Gln Val Pro Arg Ala Ser Gly Ser Pro Asp Tyr Tyr Leu Arg Leu Cys			
130	135	140	
Leu Lys Arg Phe Thr Cys Glu Asp Ala Gly Ala Pro Val Arg Val Thr			
145	150	155	160
Ala Asn Ser Val Pro Gln Ala Val Phe Leu Pro Tyr Ser Gln Glu Leu			
165	170	175	
Pro Cys Leu Cys Leu Glu Gly Trp Ser Ala Thr Pro Asp Ala Val Arg			
180	185	190	
Ile Gln Ile Cys Pro Phe Glu Asn Asp Thr Glu Ala Leu Glu Val Leu			
195	200	205	
Trp Asp Thr Val Tyr Tyr His Pro Glu Ser Gln Thr Leu Ser Trp Glu			
210	215	220	
Pro Ala Cys Pro Val Ser Gly His Val Ser Leu Cys Trp Arg Pro Gly			
225	230	235	240
Pro Gly Ala Gly Cys Arg Lys Leu Gln Gln Ser Ser Gln Leu Val His			
245	250	255	
Arg Arg Val Gln Tyr Pro Leu Val Asp Thr Gln Pro Gln Leu Cys Leu			
260	265	270	
Lys Phe Ser Thr Ser Trp Gly Ser Trp Val Arg Cys Pro Phe Glu Gln			
275	280	285	
Arg Arg Phe Pro Thr Pro Pro Thr Ser Arg Cys Thr Cys Val Thr Gly			

290 295 300
 Gly Ser His Ser Ser Leu Pro Ala Asn Ala His Ser Arg Pro Ala Arg
 305 310 315 320
 Ser Leu Gln Pro Gln Val Thr Trp Gln Pro Pro Leu Leu Leu Pro Ser
 325 330 335

<210> 3466

<211> 295

<212> PRT

<213> Homo sapiens

<400> 3466

Met Ala Val Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala
 1 5 10 15
 Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe
 20 25 30
 Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala
 35 40 45
 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Gln Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly
 65 70 75 80
 Pro Glu Tyr Trp Asp Arg Asn Thr Arg Asn Val Lys Ala His Ser Gln
 85 90 95
 Thr Asp Arg Arg Tyr Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr
 100 105 110
 Asp Ala Pro Lys Thr His Met Thr His His Ala Val Ser Asp His Glu
 115 120 125
 Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr
 130 135 140
 Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu
 145 150 155 160
 Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ser
 165 170 175
 Val Val Val Pro Ser Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln

180	185	190
His Glu Gly Leu Pro Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser		
195	200	205
Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe		
210	215	220
Gly Ala Val Ile Ala Gly Ala Val Val Ala Ala Val Met Trp Arg Arg		
225	230	235
Lys Ser Ser Gly Gly Glu Gly Met Lys Gly Gly Ser Glu Ile Ser Cys		
245	250	255
Leu Thr Glu Gly Ser Lys Thr Gln Val Glu Val Cys Pro Ala Ser Leu		
260	265	270
Leu Gly Ser Thr Ile His Asn Tyr Glu Pro Thr Gln Pro Gly Pro Cys		
275	280	285
Val Pro Ala Leu Thr Leu Leu		
290	295	

<210> 3467

<211> 368

<212> PRT

<213> Homo sapiens

<400> 3467

Met Glu Gly Leu Val Phe Leu Asn Ala Leu Ala Thr Arg Leu Leu Phe
1 5 10 15
Leu Leu His Ser Leu Val Gly Val Trp Arg Val Thr Glu Val Lys Lys
20 25 30
Glu Pro Arg Tyr Trp Leu Leu Ala Leu Leu Asn Leu Leu Leu Phe Leu
35 40 45
Glu Thr Ala Leu Thr Leu Lys Phe Lys Arg Gly Arg Gly Tyr Lys Trp
50 55 60
Phe Ser Pro Ala Ile Phe Leu Tyr Leu Ile Ser Ile Val Pro Ser Leu
65 70 75 80
Trp Leu Leu Glu Leu His His Glu Thr Gln Tyr Cys Ser Ile Gln Ala
85 90 95
Glu Gly Thr Ser Gln Asn Thr Ser Arg Lys Glu Asp Phe Asn Gln Thr

100	105	110
Leu Thr Ser Asn Glu Gln Thr Ser Arg Ala Asp Asp Leu Ile Glu Thr		
115	120	125
Ala Lys Val Phe Val Asn Asn Leu Ser Thr Val Cys Glu Lys Val Trp		
130	135	140
Thr Leu Gly Leu His Gln Thr Phe Leu Leu Met Leu Ile Ile Gly Arg		
145	150	155
Trp Leu Leu Pro Ile Gly Gly Gly Ile Thr Arg Asp Gln Leu Ser Gln		
165	170	175
Leu Leu Leu Met Phe Val Gly Thr Ala Ala Asp Ile Leu Glu Phe Thr		
180	185	190
Ser Glu Thr Leu Glu Glu Gln Asn Val Arg Asn Ser Pro Ala Leu Val		
195	200	205
Tyr Ala Ile Leu Val Ile Trp Thr Trp Ser Met Leu Gln Phe Pro Leu		
210	215	220
Asp Leu Ala Val Gln Asn Val Val Cys Pro Val Ser Val Thr Glu Arg		
225	230	235
Gly Phe Pro Ser Leu Phe Phe Cys Gln Tyr Ser Ala Asp Leu Trp Asn		
245	250	255
Ile Gly Ile Ser Val Phe Ile Gln Asp Gly Pro Phe Leu Val Val Arg		
260	265	270
Leu Ile Leu Met Thr Tyr Phe Lys Val Ile Asn Gln Met Leu Val Phe		
275	280	285
Phe Ala Ala Lys Asn Phe Leu Val Val Val Leu Gln Leu Tyr Arg Leu		
290	295	300
Val Val Leu Ala Leu Ala Val Arg Ala Ser Leu Arg Ser Gln Ser Glu		
305	310	315
Gly Leu Lys Gly Glu His Gly Cys Arg Ala Gln Thr Ser Glu Ser Gly		
325	330	335
Pro Ser Gln Arg Asp Trp Gln Asn Glu Ser Lys Glu Gly Leu Ala Ile		
340	345	350
Pro Leu Arg Gly Ser Pro Val Thr Ser Asp Asp Ser His His Thr Pro		
355	360	365

<211> 200

<212> PRT

<213> Homo sapiens

<400> 3468

```

Met Gly Val Pro Asn Phe Leu Ser Phe Phe Ser Phe Leu Phe Phe Phe
  1             5             10             15
Phe Lys Ser Leu Arg Gln Gly Leu Ala Gln Leu Pro Arg Leu Glu Cys
             20             25             30
Ser Gly Thr Ile Ser Ala His Cys Ser Leu Asn Leu Leu Gly Ser Ser
             35             40             45
Asp Pro Pro Thr Leu Ala Ser Ser Ile Ser Gly Thr Ala Gly Thr His
             50             55             60
His His Ala Gln Leu Ile Phe Phe Phe Phe Phe Leu Arg Gln Gly Leu
             65             70             75             80
Thr Leu Ser Pro Thr Leu Glu Cys Ser Gly Thr Ile Ser Ala His Cys
             85             90             95
Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Gln
             100            105            110
Val Ala Gly Asn Thr Gly Val His His His Thr Arg Leu Ile Phe Val
             115            120            125
Phe Leu Leu Glu Thr Arg Phe Cys His Val Gly Gln Thr Gly Leu Lys
             130            135            140
Leu Leu Ile Ser Gly Asp Gln Pro Thr Leu Ala Ser Gln Ser Ala Gly
             145            150            155            160
Ile Thr Gly Met Ser Cys Arg Ala Gln Pro Cys Phe Pro Tyr His Leu
             165            170            175
Ser Arg Ala Pro Cys Val Arg Gly Leu Gly Pro Leu Ser His His Lys
             180            185            190
Leu Gln Arg Gly Ser Ala Ala Thr
             195            200

```

<210> 3469

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3469

```

Met Ile Gln Leu Pro Pro Thr Arg Ser Leu Ser Gln His Leu Gly Ile
 1             5             10             15
Gln Gly Glu Ile Trp Val Gly Thr Gln Pro Asn His Ile Thr Ala Pro
      20             25             30
Glu Leu Asn Phe Ser Trp Asn Cys Ser Ser Tyr Glu Gly Glu Phe Ser
      35             40             45
Ile Val Pro Thr Ser Gln Leu Ser Ser Gly His Asp Val Ser Asn Trp
      50             55             60
His Gly Leu Gly Gln Ala Leu Cys Thr Ser Cys Asn Gly Val Leu Glu
      65             70             75             80
Arg Ile His Leu His Phe Gln Leu Leu His Trp Gln Val Gly Val Ser
      85             90             95
Pro Asp Ile Arg Lys Gly Leu Asn Ala Gly Gln Ser Lys Lys Asn Asp
      100            105            110
Thr Cys Pro Phe Leu Leu Glu His Asp Gly Cys Glu Glu Asp Arg Arg
      115            120            125

```

<210> 3470

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3470

```

Met Val Glu Leu Thr Val Ala Ala Arg Gln Ala Tyr Lys Thr Met Leu
 1             5             10             15
Glu Asn Val Gln Gln Glu Leu Val Gly Glu Pro Arg Pro Gln Ala Pro
      20             25             30
Pro Ser Leu Pro Met Gly Val Val Ala Ala Thr Leu Glu Val Val Gly
      35             40             45
Thr Arg Ala Met Gly Val Ala Gly Ile Met Thr Val Asp Leu Glu Gly
      50             55             60
Met Asp Met Asp Met Asp Val Pro Glu Thr Ile Met Ala Glu Thr Arg

```


65 70 75 80
 Val Val Met Thr Ala Thr Gln Glu Glu Ile Thr Glu Thr Ile Met Thr
 85 90 95
 Thr Glu Met Arg His Ala His Asn Ile Asp Thr Gln Gly Ile Ile Ser
 100 105 110
 Asp Pro Gly Ser Ser Phe Gln Met Ala Val Phe Ile Lys Val Phe Gly
 115 120 125
 Ala Ala Leu Lys His Leu Ile Leu
 130 135

<210> 3471

<211> 168

<212> PRT

<213> Homo sapiens

<400> 3471

Met Gly Ile Ser Arg Thr Ala Pro Gln Gly Thr Gly Gly Ile Ile Leu
 1 5 10 15
 Gln Gly Pro Leu Leu Pro Met Lys Asp Thr Arg Glu Met Leu Leu Arg
 20 25 30
 Lys Leu Glu Leu Cys Ala Phe Asp His Leu Val Cys Pro Pro Ile Leu
 35 40 45
 Pro Ser Glu Gly Leu Gly Glu Arg Arg Asn Ala Pro Ser Glu Gly Leu
 50 55 60
 Gly Glu Arg Arg Asn Ala Arg Gly Arg Cys Ala Leu Gln Arg Leu Tyr
 65 70 75 80
 Gln His Gln Lys Lys Ala Gly Arg Val Phe Leu Glu Glu Gly Gly Arg
 85 90 95
 Arg Pro Ala Val Ala Gly Arg Leu Ala Gly Gln Glu Arg Pro Ile Ser
 100 105 110
 Ala Val Leu Ser Ser Gly Leu Gln His Pro Thr Trp Arg Thr Pro Leu
 115 120 125
 Pro Leu Ser Ser Thr Val Ala Leu Leu Ser Trp Cys Pro Leu Asn Ala
 130 135 140
 Tyr Leu Pro Phe Val Pro Pro Asn Leu Ser Arg Pro Pro Gln Val Thr

145 150 155 160
His Phe Leu Ser Cys Ser Glu Leu
 165

<210> 3472

<211> 189

<212> PRT

〈213〉 Homo sapiens

<400> 3472

Met	Gly	Trp	Lys	Lys	Ile	Gln	Glu	Ser	Ser	Ala	Gln	Ile	Trp	Trp	Leu
1				5					10					15	
Lys	Glu	Glu	Gln	Trp	Pro	Gln	Glu	Val	Val	Glu	Gln	Glu	Gly	Pro	Arg
			20					25					30		
Ile	Glu	Pro	Arg	Arg	Thr	Met	Val	Phe	Lys	Gly	Pro	Ala	Lys	Glu	Thr
		35				40				45					
Ser	Arg	Arg	Lys	Val	Lys	Ser	Val	Val	Ser	Gln	Lys	Ser	Arg	Glu	Lys
	50					55				60					
Val	Ser	Arg	Asn	Ser	Gln	Gln	Cys	Glu	Ile	Leu	Leu	Cys	Lys	Ser	Ile
65				70					75					80	
Met	Val	Arg	Ala	Arg	Lys	Asp	Pro	Leu	Asp	Thr	Thr	Arg	Trp	Trp	Ser
			85						90					95	
Gly	Ile	Val	Pro	Arg	Thr	Ala	Ser	Met	Val	Cys	Trp	Ser	Ser	Gln	Leu
		100						105				110			
Pro	Val	Gly	Leu	Arg	Ser	Lys	Gln	Gly	Arg	Val	Gln	Arg	Gly	Arg	Leu
	115					120				125					
Glu	Arg	Val	Ala	Ala	Gly	Gly	Gly	Cys	Cys	Phe	Leu	Gly	Ser	His	Pro
	130				135					140					
His	Ala	Pro	Thr	Gly	Cys	His	Ser	Ala	Trp	Phe	Pro	Cys	Leu	Ala	Pro
145				150					155					160	
Leu	Leu	Pro	Leu	Pro	Ser	Ser	Gly	Leu	Gln	Asp	Gly	Leu	Asp	Ser	Gly
		165						170					175		
Leu	Ser	Gly	Tyr	Ile	Asp	Leu	Asn	Lys	Ser	Pro	Lys	Phe			
	180							185							

<210> 3473

<211> 200

<212> PRT

<213> Homo sapiens

<400> 3473

```

Met Pro Arg Gly Leu Ala Asp Lys Gln Gly Pro Glu Glu Cys Asp Ala
  1             5             10            15
Val Ala Leu Leu Ser Leu Ile Asn Ser Cys Asp His Phe Val Val Asp
      20             25            30
Arg Lys Lys Val Thr Glu Val Ile Lys Cys Arg Asn Glu Ile Met His
      35             40            45
Ser Ser Glu Met Lys Val Ser Ser Thr Trp Leu Arg Asp Phe Gln Met
      50             55            60
Lys Ile Gln Asn Phe Leu Asn Glu Phe Lys Asn Ile Pro Glu Ile Val
      65             70            75            80
Ala Val Tyr Ser Arg Ile Glu Gln Leu Leu Thr Ser Asp Trp Ala Val
      85             90            95
His Ile Pro Glu Glu Asp Gln Arg Asp Gly Cys Glu Cys Glu Met Gly
      100            105            110
Thr Tyr Leu Ser Glu Ser Gln Val Asn Glu Ile Glu Met Gln Leu Leu
      115            120            125
Lys Glu Lys Leu Gln Glu Ile Tyr Leu Gln Ala Glu Glu Gln Glu Val
      130            135            140
Leu Pro Glu Glu Leu Ser Asn Arg Leu Glu Val Val Lys Glu Phe Leu
      145            150            155            160
Arg Asn Asn Glu Asp Leu Arg Asn Gly Leu Thr Glu Asp Met Gln Lys
      165            170            175
Leu Asp Ser Leu Cys Leu His Gln Lys Leu Asp Ser Gln Glu Pro Gly
      180            185            190
Arg Gln Thr Pro Asp Arg Lys Ala
      195            200

```

<210> 3474

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3474

```

Met Asp Gly Arg Ala Ala Gly Gly Arg Gly Gly Gly Phe Leu Arg Arg
 1             5             10             15
Glu Val Gly Ser Leu Gln Pro Pro Ser His Cys Pro His Pro Thr Val
             20             25             30
Trp Leu Leu Pro Gly Leu Ser Phe Pro Ile Cys Glu Thr Gly Glu Met
             35             40             45
Gly Ser Leu Ser Gly Pro Arg Ser Ile Leu Met Gly Val Arg Ala Trp
             50             55             60
Gln Gly Leu Cys Arg Leu Gly Ser Glu Leu Gly Arg Pro Gly Cys Val
             65             70             75             80
Ala Thr Gly Val Ser Ala Pro Thr Ser Pro Phe Glu Thr Cys Pro Ala
             85             90             95
Phe Leu Phe Ala Ala Ala Thr Ala Val Arg Phe Ala Thr Arg Ser Cys
             100            105            110
Gly Cys Pro Pro Arg Gln Gly Asp
             115            120

```

<210> 3475

<211> 155

<212> PRT

<213> Homo sapiens

<400> 3475

```

Met Glu Pro Leu Asn Ser Ala Val Phe Asn Leu Arg Glu Asp Arg Val
 1             5             10             15
Gly Gln Phe Ser Trp Gln Gln Leu Arg Glu Gly Glu Ser Arg Glu Gln
             20             25             30
Gly Ser Asp Lys Val Cys Leu Ala Gly Ser Lys His Phe Met Glu Trp
             35             40             45
Arg Pro Leu Ala Val Arg Asp Leu Arg Lys Ile Cys Gln Gly Leu Leu

```

50 55 60
 His Ser Glu Gly Leu Gln Phe Gly Trp Leu Gly Thr Leu Leu Pro Cys
 65 70 75 80
 Thr Asp Gly Ala Pro Ile Ser Met Thr Arg Val Leu Val Gln Thr Gln
 85 90 95
 Phe Ile Val Phe Thr Asn Ser Met His Ser Asn Gln Thr Glu Ile Glu
 100 105 110
 Ile Gln Tyr Asn Ile Lys Gly Asp Leu Gly Gln Ala Gln Trp Leu Ile
 115 120 125
 Leu Val Ile Pro Ala Leu Trp Asp Ala Glu Leu Gly Gly Ser Leu Glu
 130 135 140
 Ala Arg Ser Leu Gly Pro Ala Trp Ala Arg Lys
 145 150 155

<210> 3476

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3476

Met Ile Ser Val His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser
 1 5 10 15
 Pro Ala Leu Ala Ser Gln Ile Ala Gly Ile Thr Gly Met His His His
 20 25 30
 Ala Arg Gln Ile Phe Ile Phe Leu Ile Glu Thr Gly Phe His His Val
 35 40 45
 Asp Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Tyr Leu Pro Ala Leu
 50 55 60
 Ala Ser Gln Ser Phe Gly Ile Thr Gly Val Ser His Arg Ala Trp Pro
 65 70 75 80
 Pro Leu Asn Thr Leu Lys Met Ser Gln Cys Ile Leu Val Ser Ile Phe
 85 90 95
 Tyr Ile Gly Lys Phe Val Val Asn Leu Ile Leu Ile Pro Val His Leu
 100 105 110
 Val

<210> 3477

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3477

```

Met Leu Met Val Leu Phe Lys Tyr Trp Phe Val Ser Phe Gly Asp Val
  1             5             10             15
Leu Val Phe Gln Gly Tyr Asp Cys Pro Asp Asn Gly Ser Ser Met Glu
             20             25             30
Phe Leu Leu Ile Gly Ser Leu Pro Ser Thr Leu Ile Lys Ser Ile Phe
             35             40             45
Cys Leu Phe Val Leu Arg Gln Ser Phe Ala Leu Val Ala Gln Ala Gly
             50             55             60
Val Arg Trp Cys Asp Leu Gly Ser Ala Gln Pro Leu Pro Pro Gly Phe
             65             70             75             80
Lys Leu Val Ser Cys Leu Gly Leu Pro Ser Ser Trp Asp Tyr Arg His
             85             90             95
Ala Pro Pro Arg Leu Ala Asn Phe Val Phe Leu Val Glu Thr Gly Phe
             100            105            110
Leu His Val Gly Gln Ala Gly Leu Glu Leu Pro Thr
             115            120

```

<210> 3478

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3478

```

Met Trp Trp Pro Leu Ala Gly Met Thr Asp Ser Glu Val Ile Thr His
  1             5             10             15
Ser His Cys Asn Cys His Ser Val Ala Ser Phe Ser Gln Gly Gln Gly

```

20 25 30
 Pro Gly Glu Arg Thr Gly Trp Gln Pro Ala Ala Gln Leu Glu Met Arg
 35 40 45
 Ser Leu Ser Phe Ser Ser Tyr Leu Met Glu Ala Ser Gln Met Gln Asp
 50 55 60
 Gly Ser Ser Arg Pro Ser Ile Thr Ser Ser Gln Cys Pro Lys Ala Arg
 65 70 75 80
 Arg Glu Ala Val Val Phe Lys Ser Arg Lys Thr Phe Leu Asn Leu Ala
 85 90 95
 Arg Ile Ala Ser Gln Thr Leu Ser
 100

<210> 3479

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3479

Met Glu Ala Gln Ser Cys Glu Gln Glu Thr Thr Ala Arg Arg Asn Gly
 1 5 10 15
 Gly Ala Arg Ser Leu Lys Gly Asn Ala Ala Gly Gly Val Val Lys Asp
 20 25 30
 Asn Ile Cys Phe Gly Ala Thr Ser Gly Ala Val Thr Lys Lys Pro Ser
 35 40 45
 Thr Leu Arg Lys Lys Glu Lys Phe Gly Tyr Arg Glu Thr Pro Cys Ser
 50 55 60
 Lys Cys Cys Asp Ser Lys Thr Ala Gly Phe Ala Pro Leu Ala Lys Glu
 65 70 75 80
 Pro Thr Glu Thr Pro Gly Ala Ala Thr Ala Lys Pro Ala Leu Glu Gly
 85 90 95
 Leu Gly Trp Arg Lys Pro Arg Thr Glu Thr Arg Lys Leu Cys Thr Ala
 100 105 110
 Arg Leu Ala Val Asp Thr Asn Arg Lys Val Ser Arg Leu Leu Ser Gly
 115 120 125
 Arg Lys Arg Gly Ser Lys Pro Ala Thr Gln Trp Arg Glu Pro Arg Ser

130 135 140
 His
 145

 <210> 3480
 <211> 240
 <212> PRT
 <213> Homo sapiens

 <400> 3480
 Met Gly Leu His Leu Trp Ala Ala Gly Pro Gly Thr His Pro Ala Gly
 1 5 10 15
 Ile Ser Asp Leu Leu Ala Glu Val Ser Ala Glu Val Asp Gly Pro Val
 20 25 30
 Pro Gly Tyr Leu Ser Ser Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr
 35 40 45
 Ile Phe Thr Ser Gly Thr Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser
 50 55 60
 His Leu Lys Ile Leu Gln Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val
 65 70 75 80
 His Gln Glu Asp Val Ile Tyr Leu Ala Leu Pro Leu Tyr His Met Ser
 85 90 95
 Gly Ser Leu Leu Gly Ile Val Gly Cys Met Gly Ile Gly Ala Thr Val
 100 105 110
 Val Leu Lys Ser Lys Phe Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln
 115 120 125
 Gln His Arg Val Thr Val Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr
 130 135 140
 Leu Val Asn Gln Pro Pro Ser Lys Ala Glu Arg Gly His Lys Val Arg
 145 150 155 160
 Leu Ala Val Gly Ser Gly Leu Arg Pro Asp Thr Trp Glu Arg Phe Val
 165 170 175
 Arg Arg Phe Gly Pro Leu Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu
 180 185 190
 Gly Asn Val Ala Thr Ile Asn Tyr Thr Gly Gln Arg Gly Ala Val Gly

195	200	205
Arg Ala Ser Trp Leu Tyr Lys Glu Ser Gln Phe Gly Thr Pro Arg Gly		
210	215	220
Thr Val Trp Pro His Leu Gln Val Ser Gln Gly Cys Trp Trp Pro Arg		
225	230	235
		240

<210> 3481

<211> 164

<212> PRT

<213> Homo sapiens

<400> 3481

Met Leu Leu Thr Thr Leu Thr His Phe Phe Phe Phe Phe Phe Leu		
1	5	10
Arg Gln Ser Leu Thr Leu Ser Ala Trp Leu Glu Cys Ser Gly Thr Ile		
20	25	30
Ser Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asn Ser Pro Ala		
35	40	45
Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Met Cys His His Ala Arg		
50	55	60
Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val Gly Glu		
65	70	75
Ala Gly Leu Glu Leu Leu Thr Ser Gly Asn Pro Pro Ala Ser Ala Ser		
85	90	95
Gln Ser Ala Gly Ile Thr Ser Val Ser His Arg Ala Arg Pro Thr Val		
100	105	110
Phe Lys Ser Val Glu Thr Ser Phe Pro Leu Met Pro Cys Ser Arg Ala		
115	120	125
Asp Tyr Asn Ser His His Ala Trp Gln Pro Leu Gly Pro Arg Phe Arg		
130	135	140
Thr Ser Leu Thr Arg Phe Thr Ser Pro Gly Ile Leu Arg Cys Phe Pro		
145	150	155
		160
Asn Ser Pro Ala		

<210> 3482

<211> 127

<212> PRT

<213> Homo sapiens

<400> 3482

```

Met Pro Val Cys Pro Cys Leu His Leu Phe Phe Ser Phe Phe Phe Phe
 1             5             10             15
Cys Phe Leu Arg Trp Ser Phe Ala Leu Ser Pro Arg Leu Glu Cys Ser
      20             25             30
Gly Ala Ile Leu Ala Arg Cys Ser Leu His Leu Pro Gly Ser Ser Asp
      35             40             45
Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Met Cys Tyr
      50             55             60
His Thr Trp Leu Ile Leu Val Phe Leu Ile Glu Thr Gly Phe His His
      65             70             75             80
Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala
      85             90             95
Leu Ala Ser Gln Ser Val Gly Ile Thr Gly Leu Ser His Pro Ala Arg
      100            105            110
Pro Asn Ala Ser Ile Leu Phe Leu Asp Ala Phe His Ser Lys Trp
      115            120            125

```

<210> 3483

<211> 165

<212> PRT

<213> Homo sapiens

<400> 3483

```

Met Ser His Val Ile Trp Thr Leu Lys Met Glu Cys Ser Glu Thr His
 1             5             10             15
Val Gln Gly Ser Cys Ala Lys Leu Met Ser Arg Thr Gly Leu Leu Met
      20             25             30
Lys Leu Leu Ser Glu Gln Gln Glu Ala Lys Ala Leu Asn Val Glu Trp

```

35 40 45
 Asp Thr Asp Gln Gln Lys Thr Asn Tyr Ile Asn Glu Asn Met Glu Gln
 50 55 60
 Asn Glu Gln Lys Glu Gln Lys Ser Ser Glu Leu Met Lys Glu Val Pro
 65 70 75 80
 Gly Tyr Asp Tyr Lys Asn Lys Leu Ile Phe Ala Ile Ser Val Thr Val
 85 90 95
 Ile Leu Ile Ile Leu Ile Ile Ile Phe Cys Phe Ile Glu Val Lys Thr
 100 105 110
 Ile Ile Asn Ser Gly Phe Gln Asn Thr Ile Leu Cys Leu Cys Gly Phe
 115 120 125
 Arg Ile His Lys Leu Lys Thr Asn Val Thr Phe Pro Leu Asp Ile Leu
 130 135 140
 Leu Leu Ser Phe Lys Ala Glu Val Cys Phe Val Leu Leu Leu Gln Cys
 145 150 155 160
 Ile Phe Gln Asp Cys
 165

<210> 3484

<211> 405

<212> PRT

<213> Homo sapiens

<400> 3484

Met Ser Ser Ser Val Lys Thr Pro Ala Leu Glu Glu Leu Val Pro Gly
 1 5 10 15
 Ser Glu Glu Lys Pro Lys Gly Arg Ser Pro Leu Ser Trp Gly Ser Leu
 20 25 30
 Phe Gly His Arg Ser Glu Lys Ile Val Phe Ala Lys Ser Asp Gly Gly
 35 40 45
 Thr Asp Glu Asn Val Leu Thr Val Thr Ile Thr Glu Thr Thr Val Ile
 50 55 60
 Glu Ser Asp Leu Gly Val Trp Ser Ser Arg Ala Leu Leu Tyr Leu Thr
 65 70 75 80
 Leu Trp Phe Phe Phe Ser Phe Cys Thr Leu Phe Leu Asn Lys Tyr Ile

	85	90	95
Leu Ser Leu Leu Gly Gly Glu Pro Ser Met Leu Gly Ala Val Gln Met			
100	105	110	
Leu Ser Thr Thr Val Ile Gly Cys Val Lys Thr Leu Val Pro Cys Cys			
115	120	125	
Leu Tyr Gln His Lys Ala Arg Leu Ser Tyr Pro Pro Asn Phe Leu Met			
130	135	140	
Thr Met Leu Phe Val Gly Leu Met Arg Phe Ala Thr Val Val Leu Gly			
145	150	155	160
Leu Val Ser Leu Lys Asn Val Ala Val Ser Phe Ala Glu Thr Val Lys			
165	170	175	
Ser Ser Ala Pro Ile Phe Thr Val Ile Met Ser Arg Met Ile Leu Gly			
180	185	190	
Glu Tyr Thr Gly Leu Leu Val Asn Leu Ser Leu Ile Pro Val Met Gly			
195	200	205	
Gly Leu Ala Leu Cys Thr Ala Thr Glu Ile Ser Phe Asn Val Leu Gly			
210	215	220	
Phe Ser Ala Ala Leu Ser Thr Asn Ile Met Asp Cys Leu Gln Asn Val			
225	230	235	240
Phe Ser Lys Lys Leu Leu Ser Gly Asp Lys Tyr Arg Phe Ser Ala Pro			
245	250	255	
Glu Leu Gln Phe Tyr Thr Ser Ala Ala Ala Val Ala Met Leu Val Pro			
260	265	270	
Ala Arg Val Phe Phe Thr Asp Val Pro Val Ile Gly Arg Ser Gly Lys			
275	280	285	
Ser Phe Ser Tyr Asn Gln Asp Val Val Leu Leu Leu Leu Thr Asp Gly			
290	295	300	
Val Leu Phe His Leu Gln Ser Ile Thr Ala Tyr Ala Leu Met Gly Lys			
305	310	315	320
Ile Ser Pro Val Thr Phe Ser Val Ala Ser Thr Val Lys His Ala Leu			
325	330	335	
Ser Ile Trp Leu Ser Val Ile Val Phe Gly Asn Lys Ile Thr Ser Leu			
340	345	350	
Ser Ala Val Gly Thr Ala Leu Val Thr Val Gly Val Leu Leu Tyr Asn			
355	360	365	

Lys Ala Arg Gln His Gln Gln Glu Ala Leu Gln Ser Leu Ala Ala Ala
 370 375 380
 Thr Gly Arg Ala Pro Asp Asp Thr Val Glu Pro Leu Leu Pro Arg Asp
 385 390 395 400
 Pro Arg Gln His Pro
 405

<210> 3485

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3485

Met Lys Ser Val Ala Gln Leu Val Tyr Phe Phe Gly Leu Leu Leu Leu
 1 5 10 15
 Asn Phe Val Ser Pro Lys Ser Glu Tyr Glu Ser Phe Cys Val Leu Ser
 20 25 30
 Leu Leu Leu Phe Phe Arg Glu Val Lys Val Val Gly Val Gln Pro Ile
 35 40 45
 Phe Val Tyr Phe Phe Cys Ser Ser Tyr Ile Tyr Tyr Tyr Trp Trp Phe
 50 55 60
 Leu Ser Gly Asn Phe Ser Phe Thr Leu Thr Leu Ala Leu Pro Pro Ser
 65 70 75 80
 Ala Phe Phe Ser Trp Leu Gln Leu Ser Thr Ile Ile Cys Gly Phe Pro
 85 90 95
 Glu Gly Glu Pro Trp Trp Ser Gly Gly Gly Gly Arg Pro His Ser Lys
 100 105 110
 Ser Gly Val Val Gly Val Pro Asp Arg Val Leu Ile Gln Glu
 115 120 125

<210> 3486

<211> 329

<212> PRT

<213> Homo sapiens

<400> 3486

Met Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Leu Phe Ser
 1 5 10 15
 Val Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Glu Leu Phe Pro
 20 25 30
 Val Leu Phe Pro Met Leu Phe Pro Ala Leu Leu Pro Ala Leu Phe His
 35 40 45
 Met Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Leu Phe Ser
 50 55 60
 Ala Pro Phe Pro Met Arg Ser Leu His Cys Ser Pro Arg Cys Ser Pro
 65 70 75 80
 Cys Cys Ser Pro Arg Cys Ser Pro Cys Cys Ser Leu His Cys Ser Pro
 85 90 95
 Cys Cys Ser Leu Gln Cys Ser Leu His Cys Ser Pro His Cys Ser Leu
 100 105 110
 His Cys Ser Pro Cys Cys Phe Leu His Tyr Ser Pro Cys Cys Ser Leu
 115 120 125
 His Phe Ser Leu Cys Arg Ser Pro Cys Ile Pro Cys Thr Val Pro Cys
 130 135 140
 Thr Val Pro His Ala Val Pro Cys Asn Ala Pro Cys Thr Val Pro Arg
 145 150 155 160
 Thr Ala Pro Cys Thr Ile Pro His Ala Val Pro Cys Thr Phe Leu Cys
 165 170 175
 Ala Val Pro His Ala Phe Pro Ala Leu Phe Pro Ala Leu Phe Pro Met
 180 185 190
 Leu Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala Pro Phe Pro Met
 195 200 205
 Leu Phe Pro Ala Gly Phe Pro Ala Leu Phe Pro Met Leu Phe Pro Ala
 210 215 220
 Pro Phe Pro Met Leu Phe Pro Ala Gly Phe Pro Ala Leu Phe Pro Met
 225 230 235 240
 Leu Phe Pro Ala His Phe Met Pro Gln Thr Phe Pro Phe Ser His Gln
 245 250 255
 His Thr Gly Ser Ser Phe Lys Ser Phe Cys Ser Val Ser Asn His Ser

260 265 270
 Ser Ala Gly Thr Gly Trp Gly Gln Asp Gly Val Arg Pro Cys Arg Pro
 275 280 285
 Trp Pro Ser Arg Ser Val Pro Leu Arg Arg Leu Pro Gln Arg His Gly
 290 295 300
 Arg Leu Leu Lys Ala Thr Glu Arg Ser Thr Cys Trp Thr Pro Thr Thr
 305 310 315 320
 Arg Ala Thr Pro Ser Cys Gly Cys Pro
 325

<210> 3487

<211> 163

<212> PRT

<213> Homo sapiens

<400> 3487

Met Ile Glu Ile Leu Asn Lys Ser Lys Asn Cys Glu Gly Phe Ser Glu
 1 5 10 15
 Arg Arg Thr Gly Arg Gly Ile Trp Thr Trp Val Cys Met His Arg Pro
 20 25 30
 Gly Cys Ser Arg Val Ala Asp Gln Gln His Leu Glu Asp Phe Thr Glu
 35 40 45
 Cys Phe Cys His Leu His Pro Ser Trp Pro Arg Pro Ala Leu Phe Pro
 50 55 60
 Leu Leu Leu Gln Leu Ile Phe Pro Asp Leu Val Glu Gly Leu Val Leu
 65 70 75 80
 Val Asn Ile Asp Pro Asn Gly Lys Gly Trp Ile Asp Trp Ala Ala Thr
 85 90 95
 Lys Leu Ser Gly Leu Thr Ser Thr Leu Pro Asp Thr Val Leu Ser His
 100 105 110
 Leu Phe Ser Gln Glu Glu Leu Val Asn Asn Thr Glu Leu Val Gln Ser
 115 120 125
 Tyr Arg Gln Gln Ile Gly Asn Val Val Asn Gln Ala Asn Leu Gln Leu
 130 135 140
 Phe Trp Asn Met Tyr Asn Ser His Phe Pro Gly Ala Leu Trp Ala Gln

145 150 155 160
 Leu Val Leu

<210> 3488

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3488

Met Asn Gly Arg Leu Ser Lys Glu Asp Val Tyr Ala Ala Ser Lys His
 1 5 10 15
 Glu Lys Ser Ser Ser Ser Leu Phe Ile Arg Glu Met Gln Ile Lys Thr
 20 25 30
 Ala Met Arg Tyr His Leu Met Pro Val Arg Met Val Val Ile Lys Lys
 35 40 45
 Ser Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Ile Gly Thr Leu
 50 55 60
 Leu His Cys Trp Trp Glu Gly Lys Leu Val Gln Pro Leu Trp Lys Thr
 65 70 75 80
 Val Trp Gln Phe Thr Lys Asp Leu Val Leu Glu Ile Pro Phe Asp Pro
 85 90 95
 Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Asp Tyr Lys
 100 105

<210> 3489

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3489

Met Glu Lys Asn Ile Ser Leu Tyr Glu Tyr Thr Thr Phe Cys Leu Ser
 1 5 10 15
 Ile Tyr Pro Leu Ile Gly Cys Phe Tyr Phe Phe Leu Ala Ile Met Asn

	20		25		30										
Asn	Ile	Ala	Val	Asn	Ile	Cys	Val	Gln	Gly	Phe	Ser	Gly	His	Lys	Phe
	35		40		45										
Leu	Phe	Phe	Leu	Gly	Ile	Tyr	Leu	Gly	Val	Glu	Leu	Leu	Gly	His	Ile
	50		55		60										
Val	Ile	Leu	Phe	Asn	Phe	Leu	Lys	Asn	Phe	Pro	Thr	Val	Leu	His	Gly
	65		70		75										80
Gly	Cys	Ala	Ile	Val	Tyr	Ser	Tyr	Gln	Gln	Cys	Met	Lys	Leu	Gln	Ile
			85						90					95	
Ser	Pro	His	Pro	Glu	Asn	Pro	Phe	Ile	Ile	Phe	Cys	Phe	Ser	Phe	
	100							105						110	

<210> 3490

<211> 199

<212> PRT

<213> Homo sapiens

<400> 3490

Met	Val	Ser	Arg	Pro	Pro	Arg	Thr	Pro	Leu	Ser	Pro	Ser	Ser	Trp	Thr
1				5					10					15	
Pro	Ala	Met	Gly	Leu	Arg	Ala	Ser	Arg	Asn	Cys	Ser	Arg	Thr	Glu	Asn
			20						25					30	
Ala	Val	Cys	Gly	Cys	Ser	Pro	Gly	His	Phe	Cys	Ile	Val	Gln	Asp	Gly
		35						40					45		
Asp	His	Cys	Ala	Ala	Cys	Arg	Ala	Tyr	Ala	Thr	Ser	Ser	Pro	Gly	Gln
		50				55							60		
Arg	Val	Gln	Lys	Gly	Gly	Thr	Glu	Ser	Gln	Asp	Thr	Leu	Cys	Gln	Asn
	65					70				75					80
Cys	Pro	Pro	Gly	Thr	Phe	Ser	Pro	Asn	Gly	Thr	Leu	Glu	Glu	Cys	Gln
					85					90				95	
His	Gln	Thr	Lys	Cys	Ser	Trp	Leu	Val	Thr	Lys	Ala	Gly	Ala	Gly	Thr
			100							105				110	
Ser	Ser	Ser	His	Trp	Val	Trp	Trp	Phe	Leu	Ser	Gly	Ser	Leu	Val	Ile
			115						120					125	

Val Ile Val Cys Ser Thr Val Gly Leu Ile Ile Cys Val Lys Arg Arg
 130 135 140
 Lys Pro Arg Gly Asp Val Val Lys Val Ile Val Ser Val Gln Arg Lys
 145 150 155 160
 Arg Gln Glu Ala Glu Gly Glu Ala Thr Val Ile Glu Ala Leu Gln Ala
 165 170 175
 Pro Pro Asp Val Thr Thr Val Ala Val Glu Glu Thr Ile Pro Ser Phe
 180 185 190
 Thr Gly Arg Ser Pro Asn His
 195

<210> 3491

<211> 120

<212> PRT

<213> Homo sapiens

<400> 3491

Met Arg Lys Glu Lys Gln Ser Lys Ser Leu Leu Tyr Leu Leu Lys Ile
 1 5 10 15
 Ser Ser Leu Phe Ser Ser Thr Leu Phe His Gln His Leu Pro Ala Gln
 20 25 30
 Asn Phe His Asn Asp Pro Ile Leu Lys Pro Asn Ser Val Ser Arg Leu
 35 40 45
 Leu Thr Ser Thr Ile Ala Arg Thr His Glu Asn Leu Leu Ile Gln Ala
 50 55 60
 His Ala Met Ala Gln Ala His Ala Glu Gln Ala Pro Leu Thr Pro Leu
 65 70 75 80
 Leu Leu Pro Ser Ala Ser Thr Ala Leu Leu Asn Arg His Val Asn Thr
 85 90 95
 Gly Pro Phe Met His Arg Ser Lys Gly Ser Leu Arg Pro Lys Ala Leu
 100 105 110
 Cys Thr Thr Leu Cys Asp Ser Leu
 115 120

<210> 3492

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3492

```

Met Val Ser Ala Ala Leu Ile Ser Gln Ser Leu Pro Arg Ser Pro His
 1              5              10              15
Ser Arg Ser Pro Pro Leu Ala Arg Ser Arg Arg Leu Pro Thr Pro Arg
      20              25              30
Ser Arg Pro Leu Arg Pro Ser Phe Leu Pro His Pro Ser Pro Arg Pro
      35              40              45
Arg Asn Trp Pro Gly Pro Ser Lys Cys Arg Pro Arg Ser Arg Leu Gln
      50              55              60
Asn Phe Leu Lys Leu Ser Asn Ser Lys His Pro Trp Pro Ala Ser Ser
      65              70              75              80
Lys Leu Pro Leu Leu Pro Ser Arg Leu Leu His Arg Leu Trp Arg Ser
              85              90              95
Arg Arg Arg Arg Arg Pro Gly Ser Arg Cys Arg
      100              105

```

<210> 3493

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3493

```

Met His Leu Leu Leu Leu Ser Ser Ser Tyr Leu Asn Leu Leu Gln Arg
 1              5              10              15
Met Leu Trp Arg Leu Pro Trp Leu Ser His Val Ile His Lys Glu His
      20              25              30
Ala Thr Thr Ile Gln Phe Leu Gln Pro Arg Gly Arg Glu Gln Gln Tyr
      35              40              45
Leu Cys Arg Arg Arg His Ser Glu Leu Pro Ser Ala Ser Arg Asn Gln
      50              55              60

```

Ile Ser Glu Arg Arg Leu Ser Ala Tyr Leu Arg Thr Ile Ser Gly Val
 65 70 75 80
 Thr Val Cys Ser Asp Gly Leu Ser Thr Ser Val Trp Ser Cys Leu Leu
 85 90 95
 Phe Arg Arg Asp Leu Asp Pro Ala Trp Met Met Glu Gly Lys Gly Leu
 100 105 110
 Ala Gln Gly Glu Gly
 115

<210> 3494

<211> 111

<212> PRT

<213> Homo sapiens

<400> 3494

Met Cys Val Cys Cys Phe Ile Phe Leu Met Leu Cys Leu Gly Arg Glu
 1 5 10 15
 Cys Ser Tyr Ile Tyr Val Tyr Ile Leu Tyr Ser Pro Ile Trp Glu Ser
 20 25 30
 Arg Ser Glu Val Ile Ala Ser Ser Asp Cys Phe Ser Ser Glu Val Gly
 35 40 45
 Tyr His Trp Phe Thr Cys Leu Tyr Leu Asn Val Leu Pro Ser Val Glu
 50 55 60
 Ser Pro Ala Cys Gly Glu Glu Ser Leu Leu Val Met Phe Leu Phe Ser
 65 70 75 80
 Val Phe Met Gly Glu Phe Ile Gln Met Phe Tyr Leu Phe Gln Ser Thr
 85 90 95
 Leu Asp Cys Ala Glu Met Ser Ser Ser Val Ala Gln Glu Lys Ala
 100 105 110

<210> 3495

<211> 168

<212> PRT

<213> Homo sapiens

<400> 3495

Met Arg Leu Pro Ala Arg Leu Pro Ser Thr Ser Thr Ser Gly Ser Thr
 1 5 10 15
 Ser His Cys Arg Thr Gly Phe Trp Thr Leu Gly Val Pro Leu Pro Cys
 20 25 30
 Trp Tyr Ser Leu Ser Ser Gly Phe His Ser Thr Ser Pro Val Leu Gly
 35 40 45
 Thr Thr Ser Thr Trp Pro Thr Thr Ser Ser Arg Pro Phe Ser Cys Ser
 50 55 60
 Arg Tyr Cys Pro Arg Ala Pro Thr Leu Ser Cys His Pro His Ser Leu
 65 70 75 80
 His Thr Trp Gln Glu Gly Asp Ala Lys Pro Cys Val Leu Thr Gln Ala
 85 90 95
 Arg Ser Cys Leu Leu Leu Gly Gly Glu Gly Cys Asp Arg Ala Ala Cys
 100 105 110
 Pro Gly Pro Gly Ala Arg Gly Arg Arg Ser Cys Arg Trp Pro Gly Gly
 115 120 125
 Met Glu Asn Met Pro Gln Glu Arg Ala Phe Asp Leu Ser Leu Ser Leu
 130 135 140
 Ala Cys Gln Trp Gly Lys Gln Arg Gly Val Gln Val Glu Gly Pro Lys
 145 150 155 160
 Asp Lys Ala Val Leu Gly Lys Pro
 165

<210> 3496

<211> 144

<212> PRT

<213> Homo sapiens

<400> 3496

Met Asp Ser Ser Tyr Leu Asp Asn Gln Gly Ile Ala Pro Ser Lys Lys
 1 5 10 15
 Pro Met Pro Ser Tyr Lys Cys Gln Ser His Trp Ala Asn Gln Gln Thr
 20 25 30

Leu	Ser	Gln	Arg	Ala	Pro	Leu	Gly	Phe	Thr	Gly	Gln	Trp	Thr	Asn	Gln
35					40					45					
Arg	Arg	Phe	Gln	Ser	Ala	Ser	His	Cys	Gly	Thr	Ala	Arg	His	Ser	Leu
50					55					60					
Cys	Pro	Ala	Arg	Ser	Gly	Thr	Phe	Leu	Asp	Pro	Val	Ser	Ser	Ile	Ile
65					70					75					80
Leu	Asp	Cys	Gln	Leu	Pro	Glu	Val	Arg	Lys	Leu	Ile	Phe	Tyr	Phe	Phe
85					90					95					
Ser	Leu	Arg	Leu	Leu	Asn	Leu	Phe	Gln	Leu	His	Leu	Ser	Thr	Glu	Leu
100					105					110					
Ser	Ser	Tyr	Gln	Val	Leu	Arg	His	Ile	Asn	Asp	Ala	Asn	Leu	Val	Pro
115					120					125					
Phe	Leu	Val	Trp	Pro	Asn	Ser	Lys	Val	Glu	Glu	Leu	Gly	Asn	Lys	Ser
130					135					140					

<210> 3497

<211> 329

<212> PRT

<213> Homo sapiens

<400> 3497

Met	Lys	Leu	Ser	Val	Asn	Glu	Ala	Gln	Leu	Gly	Phe	Tyr	Leu	Gly	Ser
1				5					10					15	
Leu	Ser	His	Leu	Ser	Ala	Cys	Pro	Gly	Ile	Asp	Pro	Arg	Ser	Ser	Glu
			20					25					30		
Asp	Gln	Pro	Glu	Ser	Leu	Lys	Thr	Gly	Gln	Met	Met	Asp	Glu	Ser	Asp
		35					40					45			
Glu	Asp	Phe	Lys	Glu	Leu	Cys	Ala	Ser	Phe	Phe	Gln	Arg	Val	Lys	Lys
	50					55					60				
His	Gly	Ile	Lys	Glu	Val	Ser	Gly	Glu	Arg	Lys	Thr	Gln	Lys	Ala	Ala
65				70					75					80	
Ser	Asn	Gly	Thr	Gln	Ile	Arg	Ser	Lys	Leu	Lys	Arg	Thr	Lys	Gln	Thr
			85						90					95	
Ala	Thr	Lys	Thr	Lys	Thr	Leu	Gln	Gly	Pro	Ala	Glu	Lys	Lys	Pro	Pro
		100						105					110		

Ser Gly Ser Gln Ala Pro Arg Thr Lys Lys Gln Arg Val Thr Lys Trp
 115 120 125
 Gln Ala Ser Glu Pro Ala His Ser Val Asn Gly Glu Gly Gly Val Leu
 130 135 140
 Ala Ser Ala Pro Asp Pro Pro Val Leu Arg Glu Thr Ala Gln Asn Thr
 145 150 155 160
 Gln Thr Gly Asn Gln Gln Glu Pro Ser Pro Asn Leu Ser Arg Glu Lys
 165 170 175
 Thr Arg Glu Asn Val Pro Asn Ser Asp Ser Gln Pro Pro Pro Ser Cys
 180 185 190
 Leu Thr Thr Ala Val Pro Ser Pro Ser Lys Pro Arg Thr Ala Gln Leu
 195 200 205
 Val Leu Gln Arg Met Gln Gln Phe Lys Arg Ala Asp Pro Glu Arg Leu
 210 215 220
 Arg His Ala Ser Glu Glu Cys Ser Leu Glu Ala Ala Arg Glu Glu Asn
 225 230 235 240
 Val Pro Lys Asp Pro Gln Glu Glu Met Met Ala Gly Asn Val Tyr Gly
 245 250 255
 Leu Gly Pro Pro Ala Pro Glu Ser Asp Ala Ala Val Ala Leu Thr Leu
 260 265 270
 Gln Gln Glu Phe Ala Arg Val Gly Ala Ser Ala His Asp Asp Ser Leu
 275 280 285
 Glu Glu Lys Gly Leu Phe Phe Cys Gln Ile Cys Gln Lys Asn Leu Ser
 290 295 300
 Ala Met Asn Val Thr Arg Arg Glu Gln His Val Asn Arg Trp Gly Gln
 305 310 315 320
 Leu Gly Pro Ser Pro Leu Pro Cys Met
 325

<210> 3498

<211> 179

<212> PRT

<213> Homo sapiens

<400> 3498

Met Arg Gly Gly Gly Ser Ser Gly Glu Ile Gly Cys Phe Leu Leu Ser
 1 5 10 15
 Phe Ser Glu Lys Phe Leu Glu Arg Trp Ser Gln Arg Asp Ala Gly Gly
 20 25 30
 Trp Gly Ala Pro Gly Ser Lys Arg Leu Lys Glu Ser Glu Lys Thr Gln
 35 40 45
 Ala His Arg Asp Thr Ser Asn Leu Arg Ala Thr Ala Gln Ala Glu Pro
 50 55 60
 Lys Ala Thr Glu Thr Leu Thr Pro Glu Lys Lys His Arg Asp Arg Gly
 65 70 75 80
 Ser Arg Ser Ser Leu Cys His Cys Ser Ala Pro Glu Thr Pro Gln His
 85 90 95
 Gly Glu Arg Ala Gly Gly Ser His Glu Lys Pro Arg Ala Leu Thr Gly
 100 105 110
 Leu Leu Arg Gly Gly Arg Lys Ala Glu Thr Arg Pro Leu Glu Pro Pro
 115 120 125
 Val Arg Thr Gly Pro Val Glu Trp Ala Gln Tyr Val Arg Thr Gln Arg
 130 135 140
 Gly Arg Gln Ser Ile Gly Trp Gly Arg Leu Ser Leu Ile Phe Pro Arg
 145 150 155 160
 Phe Ser Leu Leu Ser Gly Ser Val Val Leu Ser Pro Pro Ile Phe Thr
 165 170 175
 Leu Val Ala

<210> 3499

<211> 303

<212> PRT

<213> Homo sapiens

<400> 3499

Met Thr Arg Ala Arg Ile Gly Cys Phe Gly Pro Gly Gly Arg Ala Arg
 1 5 10 15
 Gly Thr Glu Ser Ala Pro Glu Pro Ser Lys Arg Val Pro Pro Gly Arg
 20 25 30

Ser Trp Gln Thr Gln Glu Val Arg Gln Thr Arg Gly Ala Asn Gly Leu
 35 40 45
 Gly Pro Arg Ala Gly Ser Ala Gly Ala Lys Ala Pro Gly Pro Ala Gln
 50 55 60
 Gly Ala Ala Gln His Gly Leu Gly Gly Ser Ala Gly Leu Arg Val Arg
 65 70 75 80
 Val Ser Pro Leu Ala Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu
 85 90 95
 Val Leu Cys Leu Val Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu
 100 105 110
 Pro Met Trp Gln Val Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala
 115 120 125
 Gln Thr Thr Trp Lys Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr
 130 135 140
 Gly His Met Gln Cys Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr
 145 150 155 160
 Glu Val Gln Ala Ala Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala
 165 170 175
 Phe Val Ala Leu Phe Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys
 180 185 190
 Val Ala Pro Gly Pro Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val
 195 200 205
 Leu Tyr Leu Phe Cys Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe
 210 215 220
 Ala Asn Ile Val Val Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser
 225 230 235 240
 Gln Lys Tyr Glu Leu Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr
 245 250 255
 Ala Leu Leu Met Val Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val
 260 265 270
 Cys Thr Gly Arg Pro Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro
 275 280 285
 Arg Arg Pro Thr Ala Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val
 290 295 300

<210> 3500

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3500

```

Met Arg Asn Leu Gln Ser Ser Ile Gln Asn Trp Arg Arg His Thr Gln
  1             5             10             15
Thr Thr Leu Gln Gly Arg Leu Ala Ala Glu Ala Gly Pro Met Lys Lys
          20             25             30
Met Met Lys Lys Thr Met Arg Met Tyr His Val Tyr Tyr Trp Pro Gln
          35             40             45
Thr Thr Ser Pro Leu Pro Arg Val Ala His Arg Lys Gln Pro Ala Pro
          50             55             60
Phe Phe Phe Leu Phe Ser Pro Thr Thr His His Pro Ser Leu Gln Thr
          65             70             75             80
Leu Pro Pro Thr Arg Leu Gly Cys Arg Val Cys Glu Ala Ala Gln Lys
          85             90             95
Val Cys Lys Ser Pro Leu Cys Leu Ile Cys Val Phe Pro Arg Lys Arg
          100            105            110
Ala Gly Ser Leu
          115

```

<210> 3501

<211> 114

<212> PRT

<213> Homo sapiens

<400> 3501

```

Met Phe His His Gln Gln Ala Tyr Cys Leu Ala Pro Phe Asp Leu Ile
  1             5             10             15
Lys Val Arg Leu Gln Asn Gln Thr Glu Pro Arg Ala Gln Pro Gly Ser
          20             25             30
Pro Pro Pro Arg Tyr Gln Gly Pro Val His Cys Ala Ala Ser Ile Phe
          35             40             45

```

Arg Glu Glu Gly Pro Arg Gly Leu Phe Arg Gly Ala Trp Ala Leu Thr
 50 55 60
 Leu Arg Asp Thr Pro Thr Val Gly Ile Tyr Phe Ile Thr Tyr Glu Gly
 65 70 75 80
 Leu Cys Arg Gln Tyr Thr Pro Glu Gly Gln Asn Pro Ser Ser Ala Thr
 85 90 95
 Val Leu Trp Gln Gly Ala Leu Gln Ala Leu Leu Pro Gly Trp Gln Pro
 100 105 110
 Arg Pro

<210> 3502

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3502

Met Ala Gly Thr Leu Asp Leu Asp Lys Gly Cys Thr Val Glu Glu Leu
 1 5 10 15
 Leu Arg Gly Cys Ile Glu Ala Phe Asp Asp Ser Gly Lys Val Arg Asp
 20 25 30
 Pro Gln Leu Val Arg Met Phe Leu Met Met His Pro Trp Tyr Ile Pro
 35 40 45
 Ser Ser Gln Leu Ala Ala Lys Leu Leu His Ile Tyr Gln Gln Ser Arg
 50 55 60
 Lys Asp Asn Ser Asn Ser Leu Gln Val Lys Thr Cys His Leu Val Arg
 65 70 75 80
 Tyr Trp Ile Ser Ala Phe Pro Ala Glu Phe Asp Leu Asn Pro Glu Leu
 85 90 95
 Ala Glu Gln Ile Lys Glu Leu Lys Ala Leu Leu Asp Gln Glu Gly Asn
 100 105 110
 Arg Arg His Ser Ser Leu Ile Asp Ile Asp Ser Val Cys Val Gly Gly
 115 120 125
 Ala Gln Arg Ala Gly Gly Ala Leu Ser Ile Leu Tyr His Leu Cys Leu
 130 135 140

Ile Asn Val Cys

145

<210> 3503

<211> 599

<212> PRT

<213> Homo sapiens

<400> 3503

```

Met Glu His Phe Leu Leu Glu Val Ala Ala Ala Pro Leu Arg Leu Ile
  1              5              10              15
Ala Ala Lys Asn Glu Lys Ser Arg Ser Glu Leu Gly Arg Phe Leu Ala
      20              25              30
Lys Gln Val Trp Thr Pro Gln Asp Arg Gln Cys Val Leu Ser Thr Leu
      35              40              45
Ala Gln Leu Leu Leu Asp Lys Asp Cys Thr Val Leu Val Gly Arg Gln
      50              55              60
Leu Arg Pro Leu Leu Leu Asp Leu Leu Glu Arg Asn Ala Glu Ala Ile
      65              70              75              80
Lys Ala Gly Gly Gln Ile Asn His Asp Leu His Glu Arg Leu Cys Val
      85              90              95
Ser Met Ser Lys Leu Ile Gly Asn His Pro Asp Val Leu Pro Phe Ala
      100             105             110
Leu Arg Tyr Phe Lys Asp Thr Ser Pro Val Phe Gln Arg Leu Phe Leu
      115             120             125
Glu Ser Ser Asp Ala Asn Pro Val Arg Tyr Gly Arg Arg Arg Met Lys
      130             135             140
Leu Arg Asp Leu Met Glu Ala Ala Phe Lys Phe Leu Gln Gln Glu Gln
      145             150             155             160
Ser Val Phe Arg Glu Leu Trp Asp Trp Ser Val Cys Val Pro Leu Leu
      165             170             175
Arg Ser His Asp Thr Leu Val Arg Trp Tyr Thr Ala Asn Cys Leu Ala
      180             185             190
Leu Val Thr Cys Met Asn Glu Glu His Lys Leu Ser Phe Leu Lys Lys
      195             200             205

```

Ile Phe Asn Ser Asp Glu Leu Ile His Phe Arg Leu Arg Leu Leu Glu
 210 215 220
 Glu Ala Gln Leu Gln Asp Leu Glu Lys Ala Leu Val Leu Ala Asn Pro
 225 230 235 240
 Glu Val Ser Leu Trp Arg Lys Gln Lys Glu Leu Gln Tyr Leu Gln Gly
 245 250 255
 His Leu Val Ser Ser Asp Leu Ser Pro Arg Val Thr Ala Val Cys Gly
 260 265 270
 Val Val Leu Pro Gly Gln Leu Pro Ala Pro Gly Glu Leu Gly Gly Asn
 275 280 285
 Arg Ser Ser Ser Arg Glu Gln Glu Leu Ala Leu Arg Ser Tyr Val Leu
 290 295 300
 Val Glu Ser Val Cys Lys Ser Leu Gln Thr Leu Ala Met Ala Val Ala
 305 310 315 320
 Ser Gln Asn Ala Val Leu Leu Glu Gly Pro Ile Gly Cys Gly Lys Thr
 325 330 335
 Ser Leu Val Glu Tyr Leu Ala Ala Val Thr Gly Arg Thr Lys Pro Pro
 340 345 350
 Gln Leu Leu Lys Val Gln Leu Gly Asp Gln Thr Asp Ser Lys Met Leu
 355 360 365
 Leu Gly Met Tyr Arg Cys Thr Asp Val Pro Gly Glu Phe Val Trp Gln
 370 375 380
 Pro Gly Thr Leu Thr Gln Ala Ala Thr Met Gly His Trp Ile Leu Leu
 385 390 395 400
 Glu Asp Ile Asp Tyr Ala Pro Leu Asp Val Val Ser Val Leu Ile Pro
 405 410 415
 Leu Leu Glu Asn Gly Glu Leu Leu Ile Pro Gly Arg Gly Asp Cys Leu
 420 425 430
 Lys Val Ala Pro Gly Phe Gln Phe Phe Ala Thr Arg Arg Leu Leu Ser
 435 440 445
 Cys Gly Gly Asn Trp Tyr Arg Pro Leu Asn Ser His Ala Thr Leu Leu
 450 455 460
 Asp Lys Tyr Trp Thr Lys Ile His Leu Asp Asn Leu Asp Lys Arg Glu
 465 470 475 480
 Leu Asn Glu Val Leu Gln Ser Arg Tyr Pro Ser Leu Leu Ala Val Val
 485 490 495

Asp His Leu Leu Asp Ile Tyr Ile Gln Leu Thr Gly Glu Lys His His
 500 505 510
 Ser Trp Ser Asp Ser Ser Val Gly Cys Glu Gln Ala Pro Glu Glu Val
 515 520 525
 Ser Glu Ala Arg Arg Glu Asn Lys Arg Pro Thr Leu Glu Gly Arg Glu
 530 535 540
 Leu Ser Leu Arg Tyr Trp Thr Lys Gln Phe Phe Leu Phe Phe Leu Ser
 545 550 555 560
 Phe Phe Phe Val Arg Gln Ile Pro Ala Leu Leu Pro Arg Leu Glu Cys
 565 570 575
 Ser Gly Ala Val Leu Ala His Ser Asn Leu Arg Leu Leu Gly Ser Lys
 580 585 590
 Phe Leu Pro Ala Arg Ser Lys
 595

<210> 3504

<211> 149

<212> PRT

<213> Homo sapiens

<400> 3504

Met Ser Ser Glu Glu Ser Gly Thr Ser Ile Ser Leu Leu Pro Ala Leu
 1 5 10 15
 Ser Leu Ala Ala Pro Asp Pro Gly Gln Arg Ser Ser Ser Gln Pro Ser
 20 25 30
 Pro Ala Ile Cys Ser Ala Pro Ala Thr Leu Thr Pro Arg Ser Pro His
 35 40 45
 Ala Ser Arg Thr Pro Ser Ser Pro Leu Gln Ser Cys Thr Pro Ser Leu
 50 55 60
 Ser Pro Arg Ser His Val Pro Ser Pro His Gln Ala Leu Val Thr Arg
 65 70 75 80
 Pro Gln Lys Pro Ser Leu Glu Phe Lys Glu Phe Val Gly Leu Pro Cys
 85 90 95
 Lys Asn Arg Pro Pro Phe Pro Arg Thr Gly Ala Thr Arg Gly Ala Gln
 100 105 110

Glu Pro Cys Ser Val Trp Glu Pro Pro Lys Arg His Arg Asp Gly Ser
 115 120 125
 Ala Phe Gln Tyr Glu Tyr Glu Pro Pro Cys Thr Ser Leu Cys Ala Arg
 130 135 140
 Val Gln Ala Val Arg
 145

<210> 3505

<211> 107

<212> PRT

<213> Homo sapiens

<400> 3505

Met Ser His Thr Ser His Leu Thr Leu Lys Ile Cys Val Ile His Arg
 1 5 10 15
 Pro Thr Leu Arg Tyr Leu Thr Leu Ile Ala Tyr Arg Gln His Val Arg
 20 25 30
 Ala Pro Arg Gly Arg Cys Ser His Pro Asp Lys Lys Ser Ala Ala Leu
 35 40 45
 Val Leu Arg Ile Leu Phe Pro Arg Thr Glu Ala Leu Pro Ser Thr Ile
 50 55 60
 Ser Leu Ala Leu Ala Glu Ser Ser Ser Pro Ile Ala Ser Leu Ser Ser
 65 70 75 80
 Thr Ser His Ala Ala Leu Arg Pro Gln Gly Asp Gly Gly Arg Gly Val
 85 90 95
 Glu Thr Arg Met Glu Trp Asn Ile Phe Ile Lys
 100 105

<210> 3506

<211> 331

<212> PRT

<213> Homo sapiens

<400> 3506

Met	Leu	Trp	Leu	Phe	Gln	Ser	Leu	Leu	Phe	Val	Phe	Cys	Phe	Gly	Pro
1				5					10					15	
Gly	Asn	Val	Val	Ser	Gln	Ser	Ser	Leu	Thr	Pro	Leu	Met	Val	Asn	Gly
			20					25					30		
Ile	Leu	Gly	Glu	Ser	Val	Thr	Leu	Pro	Leu	Glu	Phe	Pro	Ala	Gly	Glu
		35					40					45			
Lys	Val	Asn	Phe	Ile	Thr	Trp	Leu	Phe	Asn	Glu	Thr	Ser	Leu	Ala	Phe
	50					55				60					
Ile	Val	Pro	His	Glu	Thr	Lys	Ser	Pro	Glu	Ile	His	Val	Thr	Asn	Pro
65				70					75					80	
Lys	Gln	Gly	Lys	Arg	Leu	Asn	Phe	Thr	Gln	Ser	Tyr	Ser	Leu	Gln	Leu
			85					90						95	
Ser	Asn	Leu	Lys	Met	Glu	Asp	Thr	Gly	Ser	Tyr	Arg	Ala	Gln	Ile	Ser
		100						105					110		
Thr	Lys	Thr	Ser	Ala	Lys	Leu	Ser	Ser	Tyr	Thr	Leu	Arg	Ile	Leu	Arg
		115					120					125			
Gln	Leu	Arg	Asn	Ile	Gln	Val	Thr	Asn	His	Ser	Gln	Leu	Phe	Gln	Asn
	130					135					140				
Met	Thr	Cys	Glu	Leu	His	Leu	Thr	Cys	Ser	Val	Glu	Asp	Ala	Asp	Asp
145				150					155					160	
Asn	Val	Ser	Phe	Arg	Trp	Glu	Ala	Leu	Gly	Asn	Thr	Leu	Ser	Ser	Gln
			165					170						175	
Pro	Asn	Leu	Thr	Val	Ser	Trp	Asp	Pro	Arg	Ile	Ser	Ser	Glu	Gln	Asp
		180						185					190		
Tyr	Thr	Cys	Ile	Ala	Glu	Asn	Ala	Val	Ser	Asn	Leu	Ser	Phe	Ser	Val
		195				200					205				
Ser	Ala	Gln	Lys	Leu	Cys	Glu	Asp	Val	Lys	Ile	Gln	Tyr	Thr	Asp	Thr
	210					215					220				
Lys	Met	Ile	Leu	Phe	Met	Val	Ser	Gly	Ile	Cys	Ile	Val	Phe	Gly	Phe
225				230					235					240	
Ile	Ile	Leu	Leu	Leu	Leu	Val	Leu	Arg	Lys	Arg	Arg	Asp	Ser	Leu	Ser
			245					250					255		
Leu	Ser	Thr	Gln	Arg	Thr	Gln	Gly	Pro	Glu	Ser	Ala	Arg	Asn	Leu	Glu
		260						265					270		
Tyr	Val	Ser	Val	Ser	Pro	Thr	Asn	Asn	Thr	Val	Tyr	Ala	Ser	Val	Thr
		275					280						285		

His Ser Asn Arg Glu Thr Glu Ile Trp Thr Pro Arg Glu Asn Asp Thr
 290 295 300
 Ile Thr Ile Tyr Ser Thr Ile Asn His Ser Lys Glu Ser Lys Pro Thr
 305 310 315 320
 Phe Ser Arg Ala Thr Ala Leu Asp Asn Val Val
 325 330

<210> 3507

<211> 160

<212> PRT

<213> Homo sapiens

<400> 3507

Met Pro Ala Ile Ser Val Ser Pro Ser Leu Gln Lys Tyr Ser Lys Gln
 1 5 10 15
 Gln Lys Leu Asn Thr Tyr Glu Val Asn Thr Lys Asp Leu His Arg Lys
 20 25 30
 Ile Ser Gly Ser Ser Val Asp Ala Ile Ala His Cys Ser Ala Gly Gln
 35 40 45
 Ser Ser Gly Leu Ser Phe Asp Phe Gly Pro Val Leu Gln Asn Gln Gln
 50 55 60
 Pro Phe Ser Gln Lys Thr Val Glu Cys Ser Gln Asp His Leu Trp Lys
 65 70 75 80
 Val Asn Tyr Ser Ile Phe Asn Leu Leu Pro Trp Ala Met Met Ser Glu
 85 90 95
 Thr Gln His Gly Gly Arg Thr Ser Ser Cys Val Gly Asn Leu Ser Glu
 100 105 110
 Pro Pro Trp Arg Pro Pro Lys Trp Leu Trp Gln Ser Cys Arg Gly Gly
 115 120 125
 Gly Asn Lys Lys Gly Asp Thr Trp Leu Ser Phe Leu Asn Gln Leu Thr
 130 135 140
 Met Gly Thr His Leu Tyr Trp Asn Phe Arg Val Arg Lys Tyr Gln Asn
 145 150 155 160

<210> 3508

<211> 162

<212> PRT

<213> Homo sapiens

<400> 3508

```

Met Lys Ser Cys Ser Leu Ala Gly Ala Gly Val Gln Trp His Asp Phe
  1              5              10              15
Gly Ser Leu Gln Pro Pro Pro Pro Ser Phe Arg Arg Phe Ser Cys Leu
          20              25              30
Thr Leu Pro Arg Ala Gly Ile Thr Gly Val His His His Ser Trp Leu
          35              40              45
Ile Phe Val Phe Leu Val Gln Met Arg Phe His His Val Gly Gln Ala
          50              55              60
Gly Phe Glu Leu Met Thr Leu Ser Gly Leu Pro Ala Leu Ala Ser Gln
          65              70              75              80
Asn Ala Gly Ile Thr Gly Met Ser Tyr Tyr Ala Trp Pro Gly Leu Ile
          85              90              95
Leu Glu Ile Asp Arg Leu Cys Val Ala Leu Ala Thr Val Gln Trp Leu
          100             105             110
Phe Thr Ala Val Ile Met Ala His Arg Ser Pro Lys Leu Lys Val Gly
          115             120             125
Ser Ser Cys Leu Pro Ile Ser Ala Phe Leu Val Ala Arg Thr Thr Gly
          130             135             140
Thr Leu His His Thr Gln Leu Val Leu Gly Val Leu Ser Lys Leu Asp
          145             150             155             160
Thr Trp

```

<210> 3509

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3509

Met Ala Lys Glu Ile Lys Ser Asn Arg Gln Glu Arg Gly Ala Thr Gly
 1 5 10 15
 Leu Val Asn Ser Gln Thr Glu Leu Val Ile Gly Gln Trp Lys Val Asp
 20 25 30
 Cys Ser Thr Phe Pro Phe Leu Lys Val Val Cys Tyr Lys Glu Pro Pro
 35 40 45
 Leu His Val Arg Ala Ala Leu Asp Ser Leu Ser Phe Ile His Met Ser
 50 55 60
 Glu Gly Leu Cys Ser Arg Ala Met Arg Glu Glu Phe Ala Thr Leu Arg
 65 70 75 80
 Ala Val Ser Trp Asn Pro Gly Ala Pro Phe His Val Ser Leu Gly Ala
 85 90 95
 Glu Arg Val Thr His Val Trp Glu Trp Tyr Val Trp Gln Ser Met Trp
 100 105 110
 Ala Phe Gly Phe Leu His Trp Cys Ala His Ile Leu Cys Pro Met Ile
 115 120 125
 Phe Asn Leu Asp Lys Glu Ile Asp Ile Cys Phe Pro His Leu Gly Asp
 130 135 140
 Lys
 145

<210> 3510

<211> 606

<212> PRT

<213> Homo sapiens

<400> 3510

Met Phe Gly Asn Glu Cys Cys Phe Ser Thr Gly Glu Val Ile Lys Ile
 1 5 10 15
 Thr Gly Leu Lys Val Lys Lys Ile Ile Ala Glu Ile Cys Glu Gln Ile
 20 25 30
 Glu Gly Cys Glu Phe Leu Gln Pro Phe Glu Leu Pro Met Asn Phe Pro
 35 40 45
 Gly Leu Phe Lys Ile Val Ala Asp Lys Thr Pro Tyr Leu Thr Met Glu
 50 55 60

Glu Ile Thr Arg Thr Ile His Ile Gly Pro Ser Arg Leu Gly His Pro
 65 70 75 80
 Cys Phe Tyr His Gln Lys Asp Ile Lys Leu Glu Asn Leu Ile Ile Lys
 85 90 95
 Gln Gly Glu Gln Ile Met Leu Asn Ser Val Glu Glu Ile Asp Gly Glu
 100 105 110
 Ile Met Val Ser Cys Ala Val Ala Arg Asn His Gln Thr His Ser Phe
 115 120 125
 Asn Leu Pro Leu Ser Gln Glu Gly Glu Phe Tyr Glu Cys Glu Asp Glu
 130 135 140
 Arg Ile Tyr Thr Leu Lys Glu Ile Val Glu Trp Lys Ile Pro Lys Asn
 145 150 155 160
 Arg Thr Arg Thr Val Asn Leu Thr Asp Phe Ser Asn Lys Trp Asp Ser
 165 170 175
 Thr Asn Pro Phe Pro Lys Asp Phe Cys Gly Thr Leu Ile Leu Lys Pro
 180 185 190
 Val Tyr Glu Ile Gln Gly Val Met Lys Phe Arg Lys Asp Ile Ile Arg
 195 200 205
 Ile Leu Pro Ser Leu Asp Val Glu Val Lys Asp Ile Thr Asp Ser Tyr
 210 215 220
 Asp Ala Asn Trp Phe Leu Gln Leu Leu Ser Thr Glu Asp Leu Phe Glu
 225 230 235 240
 Met Thr Ser Lys Glu Phe Pro Ile Val Thr Glu Val Ile Glu Ala Pro
 245 250 255
 Glu Gly Asn His Leu Pro Gln Ser Ile Leu Gln Pro Gly Lys Thr Ile
 260 265 270
 Val Ile His Lys Lys Tyr Gln Ala Ser Arg Ile Leu Ala Ser Glu Ile
 275 280 285
 Arg Ser Asn Phe Pro Lys Arg His Phe Leu Ile Pro Thr Ser Tyr Lys
 290 295 300
 Gly Lys Phe Lys Arg Arg Pro Arg Glu Phe Pro Thr Ala Tyr Asp Leu
 305 310 315 320
 Glu Ile Ala Lys Ser Glu Lys Glu Pro Leu His Val Val Ala Thr Lys
 325 330 335
 Ala Phe His Ser Pro His Asp Lys Leu Ser Ser Val Ser Val Gly Asp
 340 345 350

Gln Phe Leu Val His Gln Ser Glu Thr Thr Glu Val Leu Cys Glu Gly
 355 360 365
 Ile Lys Lys Val Val Asn Val Leu Ala Cys Glu Lys Ile Leu Lys Lys
 370 375 380
 Ser Tyr Glu Ala Ala Leu Leu Pro Leu Tyr Met Glu Gly Gly Phe Val
 385 390 395 400
 Glu Val Ile His Asp Lys Lys Gln Tyr Pro Ile Ser Glu Leu Cys Lys
 405 410 415
 Gln Phe Arg Leu Pro Phe Asn Val Lys Val Ser Val Arg Asp Leu Ser
 420 425 430
 Ile Glu Glu Asp Val Leu Ala Ala Thr Pro Gly Leu Gln Leu Lys Glu
 435 440 445
 Asp Ile Thr Asp Ser Tyr Leu Leu Ile Ser Asp Phe Ala Asn Pro Thr
 450 455 460
 Glu Cys Trp Glu Ile Pro Val Gly Arg Leu Asn Met Thr Val Gln Leu
 465 470 475 480
 Val Ser Asn Phe Ser Arg Asp Ala Glu Pro Phe Leu Val Arg Thr Leu
 485 490 495
 Val Glu Glu Ile Thr Glu Glu Gln Tyr Tyr Met Met Arg Arg Tyr Glu
 500 505 510
 Ser Ser Ala Ser His Pro Pro Pro Arg Pro Pro Lys His Pro Ser Val
 515 520 525
 Glu Glu Thr Lys Leu Thr Leu Leu Thr Leu Ala Glu Glu Arg Thr Val
 530 535 540
 Asp Leu Pro Lys Ser Pro Lys Arg His His Val Asp Ile Thr Lys Lys
 545 550 555 560
 Leu His Pro Asn Gln Ala Gly Leu Asp Ser Lys Val Leu Ile Gly Ser
 565 570 575
 Gln Asn Asp Leu Val Asp Glu Glu Lys Glu Arg Ser Asn Arg Gly Ala
 580 585 590
 Thr Ala Val Ala Glu Thr Phe Lys Asn Glu Lys His Gln Lys
 595 600 605

<210> 3511

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3511

```

Met Glu Met Trp Glu Arg Gln Leu Phe Leu Thr Thr Gln Pro Ser Pro
 1             5             10            15
Leu Pro Gly Gly Thr Pro Arg Asn Glu Ala Leu Pro Leu Arg Glu Phe
      20             25            30
Pro Ala Thr Pro Ser Leu Gly Pro Gly Met Ala Ala Val Arg Ala Pro
      35             40            45
Ala Pro Ser Gly Asp Ser Leu Gly Thr Asn Tyr His Arg Pro Trp Ala
      50             55            60
Thr Ser Lys Ala Ala His Thr Asp Thr Pro Ser Leu Val Thr Ser Pro
      65             70            75            80
Gln Glu Glu Gly His Pro Arg Lys Gly Gly Arg Leu Pro Gly Leu Glu
      85             90            95
Pro Leu Gln Gly Leu Thr Arg His
      100

```

<210> 3512

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3512

```

Met Glu Ala Gly Cys Lys Leu Lys Leu Lys Pro Pro Leu Tyr Phe Ser
 1             5             10            15
Ser Thr Ile Gly Phe Glu Ser Pro Asp Gly Ser Ser Tyr Pro His Phe
      20             25            30
Lys Pro Cys Leu Leu Thr Ile Ser Ser Cys Ser Leu Thr Gln Ser Pro
      35             40            45
Ala Met Ala Ser Ser Leu Ser Ser Thr Val Lys Gly Arg Leu Phe Thr
      50             55            60
Gln Ala His Lys Thr Leu Asp Tyr His Ser Pro Val Ile Leu Leu Ser
      65             70            75            80

```

Tyr Cys Ser Leu Leu Tyr Leu Ser Pro Leu Lys Pro Pro Trp Pro Pro
 85 90 95
 Pro Ile Leu Val Ser Leu His
 100

<210> 3513

<211> 244

<212> PRT

<213> Homo sapiens

<400> 3513

Met Ser His Arg Ala Trp Pro Thr Ser Ala Leu Leu Asn Leu Ser Ser
 1 5 10 15
 Leu Ser Leu Thr Leu Pro Gln Trp Leu Leu Tyr Gln Pro Thr Lys Lys.
 20 25 30
 Ala Pro Leu Pro Thr Leu Ala Gly Gln Arg Ala His Ser Leu Pro Ser
 35 40 45
 His Lys Pro Val Pro His Ala Trp Ala Leu Leu Arg Pro Lys Gln Pro
 50 55 60
 Ser Ser Asn Ser Glu Glu Asn Pro Glu Leu Leu Leu Leu Thr Val Val
 65 70 75 80
 Ile His Pro Leu Asn Ala Tyr Cys Gly Ser Pro Glu Thr Ile Thr Trp
 85 90 95
 Leu Ala Ser Val Asn Ser His Asn Ser Phe Gln Cys Tyr His Ser Cys
 100 105 110
 Val Cys Pro Leu Leu Pro Trp Leu Ser Pro Arg Tyr Phe Leu Gln Asp
 115 120 125
 Ser Val Pro Ser Leu Val Ser Gly Phe Ser Arg Tyr Leu Pro Met Ala
 130 135 140
 Cys Leu Gly Pro Ala Ser Gly Asn Pro Ala Trp Ile Val Ala Arg Lys
 145 150 155 160
 Gly Cys Glu Asp Trp Met Pro Pro Phe Val Phe Val Phe Ser Phe Ile
 165 170 175
 Pro Ser Phe Leu Ser Ser Leu Pro Ser Phe Leu Pro Leu Ser Leu Ser
 180 185 190

Leu Ser Phe Phe Leu Ser Leu Phe Leu Phe Leu Cys Leu Phe Phe Phe
 195 200 205
 Leu Phe Phe Arg Thr Cys His Pro Gly Trp Ser Ala Val Ala Gln Ser
 210 215 220
 Trp Leu Thr Thr Ile Ser Ala Ser Gln Ile Gln Ala Ile Leu Arg Pro
 225 230 235 240
 Gln Pro Pro Lys

<210> 3514

<211> 108

<212> PRT

<213> Homo sapiens

<400> 3514

Met Arg Val Pro Val Leu Tyr Pro Phe Gln His Leu Val Leu Ser Val
 1 5 10 15
 Lys Lys Ile Ile Leu Val Ser Met Gln Trp Tyr Leu Ile Lys Asp Thr
 20 25 30
 Gln Met Ala Asn Lys Gln Met Lys Arg Cys Ser Ile Ser Leu Ala Thr
 35 40 45
 Gly Glu Met Gln Ile Lys Thr Thr Val Arg Tyr His Phe Thr Pro Thr
 50 55 60
 Arg Phe Thr Ile Ile Lys Arg Trp Lys Ile Thr Ser Val Asp Lys Asn
 65 70 75 80
 Leu Glu Lys Met Glu Pro Ser Tyr Thr Ile Gly Gly Asn Val Gly Trp
 85 90 95
 Cys Ser Cys Ser Glu Lys Gln Phe Leu Thr Leu Gly
 100 105

<210> 3515

<211> 110

<212> PRT

<213> Homo sapiens

<400> 3515

Met Glu Ala Arg Pro Pro Pro Glu Arg Gly Ser Leu Lys Ile Ile Leu
 1 5 10 15
 Thr Ser Leu Ser Ser Val Leu Thr Ser Leu Asp Cys Ile Leu Ser Phe
 20 25 30
 His Leu Arg Ser Ser Trp Phe Trp Leu Ala Ser Ser Asp Ile Thr Pro
 35 40 45
 Ala Glu Glu Arg Glu Gly Thr Arg Cys Ile Thr Ala Trp Ser Gln Gly
 50 55 60
 Pro Arg Leu Ile Cys Leu His Ser Thr Phe Gln Ser Leu Met Phe Val
 65 70 75 80
 Leu Cys Ile Leu Ser Arg Gly Phe Arg Ser Leu Ser Arg Lys Asn Arg
 85 90 95
 Glu Lys Tyr Val Tyr Ser Ser Leu Met Glu Val Glu Phe Ser
 100 105 110

<210> 3516

<211> 124

<212> PRT

<213> Homo sapiens

<400> 3516

Met Leu Leu Glu Gly Arg Asp Gly Thr Ser Ile His Leu Val Asn Asn
 1 5 10 15
 Cys Gly Leu Ser Ser Val Ser Met Pro Ala Thr Val Leu Ser Ser Asp
 20 25 30
 His Thr Ala Val Asn Arg Ile Asp Glu Leu Ser Leu Ser Ser Trp Ser
 35 40 45
 Ser Gln Pro Ser Gly Glu Asp Arg Tyr Ile Gly Asn Lys Phe Leu Ile
 50 55 60
 Ala Ser Lys Gly Ala Ser Pro Lys Lys His Gln Val Thr Gly Tyr Arg
 65 70 75 80
 Thr Met Trp Asp Gly Pro Gly Arg Val Cys Glu Phe Pro Val Ala Ala
 85 90 95

Val Thr Asn Tyr His Lys Phe Ser Gly Leu Lys Leu Ile Lys Met Gly
 100 105 110

Arg Val Gln Trp Leu Met Pro Val Ile Pro Ala Leu
 115 120

<210> 3517

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3517

Met Pro Phe Ala Trp Pro Ala Pro Glu Trp Pro Gln Cys Gly Arg Ala
 1 5 10 15
 Ala Glu Ala Pro Arg His Gln Cys Asp Pro Val Ser Thr Ala Cys Ser
 20 25 30
 Leu Trp Thr Pro Phe Ser Ser His Gly Pro Pro Arg His Ser Ala Pro
 35 40 45
 Gly Pro Ser Ala Phe Pro Gln Leu Ala Leu Trp Lys Cys Gly Gln Gln
 50 55 60
 Cys Phe Gln Ser Pro Ser Ala Trp Val Cys Pro Val Phe Pro Cys Val
 65 70 75 80
 Asp Glu Gly Pro Ala Leu Leu Ala Gly Ala Ala Leu Asp Thr Pro Phe
 85 90 95
 Pro Arg His Ser Pro Gly Leu Ala His Met Gln Leu Arg Ser Arg Gly
 100 105 110
 Met Leu Thr Gln Arg Leu Val Gly Ala Ala Ser Thr Asp Phe Ser Leu
 115 120 125

Glu Ser Ser Cys Leu Leu Phe Ile Val Ser Arg Cys Leu Arg Glu Ile
 130 135 140
 Pro
 145

<210> 3518

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3518

Met Phe Lys Lys Asn Gly Ser Phe Arg Asn Asp Lys Leu Phe His Pro
 1 5 10 15
 Ile Thr Pro Asn Thr Cys Gly Ser Asp Ser Ser Leu His Leu Tyr Ile
 20 25 30
 Leu Tyr Leu His Trp Pro Asp His Pro Arg Thr Thr Tyr Leu Thr Ser
 35 40 45
 Ala Pro Phe Cys Leu Leu Thr Gln His Ser Leu Ser Leu Ser Phe Ser
 50 55 60
 Leu Pro Leu Pro Leu Phe Leu Pro Arg Pro Ser Val Thr His Thr His
 65 70 75 80
 Thr His Thr His Thr His Arg Leu His Asn Ala His Arg Asn Val Leu
 85 90 95
 Ile Pro Phe Val
 100

<210> 3519

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3519

Met Gly Gly Arg Ser His Pro Gln Pro Ala Gly Thr Arg Trp Arg Leu
 1 5 10 15
 Lys Ser Leu Ser Thr Leu Thr Leu Val His Leu Thr Gly Thr Leu Thr
 20 25 30
 Ser Ile Ser Lys Thr Trp Ser Leu Arg Thr Pro Cys Leu Gln Arg Leu
 35 40 45
 Leu Ile Ser Ser Arg Val Leu Gly Ile Gln Gly Arg Gly Gln Pro Gly
 50 55 60
 Trp Thr Gly Ser Trp Glu Gly Val Ser Trp Gln Pro Pro Gly Gln Thr

65 70 75 80
 Asp Leu Pro Ala Cys Gln Arg Gln Pro Val Leu Pro Ala Pro Thr Arg
 85 90 95
 Thr Ser Ser Gln Ala Arg Cys
 100

<210> 3520

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3520

Met Arg Ile Leu Val Ile Pro His Leu Gln Gln His Leu Gly Tyr Phe
 1 5 10 15
 Thr Trp Phe Ile Ile Cys Ile Ser Leu Met Thr Asn Glu Arg His Phe
 20 25 30
 Val Ile Tyr Val Phe Asp Val Tyr Leu Ser Ser Ile Val Lys Cys Leu
 35 40 45
 Phe Lys Ser Phe Asp His Ile Leu Ile Gly Gln Leu Phe Phe Leu Leu
 50 55 60
 Leu Asn Tyr Ser Pro Leu Ser Ile Leu Asn Thr Ile Pro Ser Ser Asp
 65 70 75 80
 Met Arg Ser Val Asn Ile Phe Ser Gln Ala Ala Ala Cys Leu Phe Ile
 85 90 95
 Phe Leu Leu Val Tyr Phe Val Lys Phe
 100 105

<210> 3521

<211> 128

<212> PRT

<213> Homo sapiens

<400> 3521

Met Ser Gly Ser Ser Arg Met Gly Thr Thr Thr Ser Arg Ser Gly Ser

1				5					10					15			
Glu	Pro	Pro	Ala	Val	Arg	Pro	Ala	Lys	Ala	Arg	Val	Arg	Met	Pro	Ser		
			20					25					30				
Arg	Ser	Met	Ala	Pro	Gly	Ser	Ala	Pro	Pro	Arg	Cys	Gly	Lys	Gly	Leu		
		35					40					45					
Gly	Arg	Ala	Leu	Arg	Pro	Leu	Pro	Arg	Ser	Pro	Cys	Ser	Pro	His	Ser		
	50					55					60						
Gly	Thr	Ala	Asn	Ala	Thr	Gly	Gln	Pro	Ala	Val	Pro	Arg	Lys	Glu	Ser		
65					70					75					80		
Gln	Gly	Arg	Glu	Thr	Pro	Pro	Arg	Ala	Ala	Ser	Val	His	Pro	Ala	Ala		
			85					90					95				
Arg	Ala	Ser	Tyr	Leu	Cys	Leu	Ser	Lys	Gln	Ser	Ala	Pro	Trp	Glu	Leu		
		100						105				110					
Lys	Tyr	Asn	Arg	Cys	Gln	Val	Gln	Gly	Arg	Arg	Phe	Ala	Ala	Glu	Asn		
	115						120				125						

<210> 3522

<211> 103

<212> PRT

⟨213⟩ Homo sapiens

<400> 3522

Met	Tyr	Gln	Gly	Lys	Glu	Gly	Arg	Lys	Arg	Arg	Ser	Arg	Ser	Arg	Asp
1				5					10					15	
Ser	Gly	Glu	Leu	Gly	Leu	Ser	Pro	Ala	Ala	Val	Leu	Arg	Val	Ser	Leu
			20					25					30		
Asn	Cys	Pro	Trp	Ala	Ala	Ser	Leu	Glu	Val	Leu	Lys	Gly	Ser	Leu	Glu
		35					40					45			
Gly	Asn	Lys	Trp	Pro	Leu	Cys	Val	Glu	Ala	Leu	Val	Arg	Val	Tyr	Lys
50						55					60				
Ser	Lys	Thr	Gln	Leu	Gly	Ala	Val	Ala	His	Ala	Cys	Asn	Pro	Ser	Arg
65				70					75					80	
Gly	Arg	Gln	Ile	Thr	Trp	Gly	Gln	Glu	Phe	Glu	Thr	Ser	Leu	Ala	Asn
			85					90						95	

Val Val Lys Pro Arg Leu Tyr

100

<210> 3523

<211> 189

<212> PRT

<213> Homo sapiens

<400> 3523

Met Ala Trp Ile Pro Leu Phe Leu Gly Leu Leu Ala Tyr Cys Thr Gly

1

5

10

15

Ser Val Ala Ser Tyr Asp Leu Ile Gln Thr Pro Ser Leu Ser Val Ser

20

25

30

Pro Gly Leu Thr Ala Thr Ile Thr Cys Ser Gly Asp Arg Leu Gly Ser

35

40

45

Arg Phe Val Ser Trp Tyr Gln Gln Arg Ser Gly Gln Ser Pro Val Val

50

55

60

Val Leu Phe Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe

65

70

75

80

Ser Gly Ser Asn Ser Gly Asp Thr Ala Thr Leu Asn Ile Thr Gly Ala

85

90

95

Gln Thr Leu Asp Glu Ala His Tyr Tyr Cys Gln Val Trp Asp Ala Asp

100

105

110

Thr Gly Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Glu

115

120

125

Thr Leu Cys Val Ile Ser Phe Phe Val Cys Pro Leu Ser Asn Glu Asp

130

135

140

Gln Ser Phe Ser Leu His Ser Arg Pro Asp Arg Gly Pro Leu Ser Ser

145

150

155

160

Leu Leu Arg Pro Ser Ile Gly Ser Pro Arg Arg His Thr His Ser Met

165

170

175

Thr Asp Thr Arg Val Arg Gly Gln Asp Gly Val Ala Tyr

180

185

<210> 3524

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3524

```

Met Gly Asp Leu Thr Cys Arg Thr Trp Thr Cys Gln His Arg Ser Leu
  1             5             10             15
Leu Thr Leu Pro Val Cys Gly Phe Leu Pro Ser Cys Ala Pro Trp Leu
             20             25             30
Arg Arg Pro Gly Asn Ser Ser Leu Gly Ile Pro Ala Glu Gln Leu Leu
             35             40             45
Gly Leu Gly Tyr Thr Ser Gln Trp Glu Gly Leu Ala Trp Gly Leu Arg
             50             55             60
Ala Arg Gly Gly Val Val Gly Gly Val Cys Leu Thr Ser Lys Asn Leu
             65             70             75             80
Leu Gln Ile Arg Glu Asn Met Lys Glu Leu Asp Phe Gly Phe Pro Gly
             85             90             95
Leu Pro Asp Leu Val Ala Leu Gly Ser Gly Asp Ile Trp Arg Leu Ile
             100            105            110
Leu Cys Ser Arg Asp Lys Asn Pro Leu His Ala His Ser Leu Phe Pro
             115            120            125
Leu Asn Arg Glu Lys Leu Gly Leu Glu Asp Thr Ala Pro Thr Ser
             130            135            140

```

<210> 3525

<211> 313

<212> PRT

<213> Homo sapiens

<400> 3525

```

Met Gly Ala Glu Ala Ser Ser Ser Trp Cys Pro Gly Thr Ala Leu Pro
  1             5             10             15
Glu Glu Arg Leu Ser Val Lys Arg Ala Ser Glu Ile Ser Gly Phe Leu
             20             25             30

```

Gly Gln Gly Ser Ser Gly Glu Ala Ala Leu Asp Val Leu Thr His Val
 35 40 45
 Leu Glu Gly Ala Gly Asn Lys Leu Thr Ser Ser Cys Gly Lys Pro Ser
 50 55 60
 Ser Asn Arg Met Ser Leu Gln Trp Thr Ala Val Ala Thr Phe Leu Tyr
 65 70 75 80

 Ala Glu Val Phe Val Val Leu Leu Leu Cys Ile Pro Phe Ile Ser Pro
 85 90 95
 Lys Arg Trp Gln Lys Ile Phe Lys Ser Arg Leu Val Glu Leu Leu Val
 100 105 110
 Ser Tyr Gly Asn Thr Phe Phe Val Val Leu Ile Val Ile Leu Val Leu
 115 120 125
 Leu Val Ile Asp Ala Val Arg Glu Ile Arg Lys Tyr Asp Asp Val Thr
 130 135 140
 Glu Lys Val Asn Leu Gln Asn Asn Pro Gly Ala Met Glu His Phe His
 145 150 155 160
 Met Lys Leu Phe Arg Ala Gln Arg Asn Leu Tyr Ile Ala Gly Phe Ser
 165 170 175
 Leu Leu Leu Ser Phe Leu Leu Arg Arg Leu Val Thr Leu Ile Ser Gln
 180 185 190
 Gln Ala Thr Leu Leu Ala Ser Asn Glu Ala Phe Lys Lys Gln Ala Glu
 195 200 205
 Ser Ala Ser Glu Ala Ala Lys Lys Tyr Met Glu Glu Asn Asp Gln Leu
 210 215 220
 Lys Lys Gly Ala Ala Val Asp Gly Gly Lys Leu Asp Val Gly Asn Ala
 225 230 235 240
 Glu Val Lys Leu Glu Glu Glu Asn Arg Ser Leu Lys Ala Asp Leu Gln
 245 250 255
 Lys Leu Lys Asp Glu Leu Ala Ser Thr Lys Gln Lys Leu Glu Lys Ala
 260 265 270
 Glu Asn Gln Val Leu Ala Met Arg Lys Gln Ser Glu Gly Leu Thr Lys
 275 280 285
 Glu Tyr Asp Arg Leu Leu Glu Glu His Ala Lys Leu Gln Ala Ala Val
 290 295 300
 Asp Gly Pro Met Asp Lys Lys Glu Glu

305

310

<210> 3526

<211> 151

<212> PRT

<213> Homo sapiens

<400> 3526

```

Met Glu Pro Ala Leu Arg Trp Arg Thr Gln Thr Leu Ser Leu Lys Gly
  1             5             10             15
Arg Arg Arg Thr Gly Asn Ser Trp Ala His Pro Arg Asp Lys Arg His
      20             25             30
Arg Leu Asn Ile Ser Pro Pro Pro Ser Pro Thr Asn Leu Pro Arg Arg
      35             40             45
Pro Ala Pro Thr Pro Pro Pro Arg Pro Asp Pro Pro Leu Ala Val Gly
      50             55             60
Val Thr Gln Gly Gln Arg Leu Arg Val Pro Gly Asp Lys Val Gly His
      65             70             75             80
Ser Ser Ser Leu His Pro Gly Pro Arg Asn Thr His Gln Arg Thr Ala
      85             90             95
Val Arg Gly Arg Thr Arg Ala Cys Val Cys Val Cys Val Cys Val Arg
      100            105            110
Ala Arg Ala Arg Ala His Thr Gly Gln Gly Ser Leu Ile Arg Asn Ala
      115            120            125
Gly Gly Thr Ser Ser Val Ser Asp Phe Arg Phe Phe His Ile Ser Glu
      130            135            140
Cys Leu His Tyr Ile Val Ser
145             150

```

<210> 3527

<211> 361

<212> PRT

<213> Homo sapiens

<400> 3527

Met Cys Val Trp Arg Leu Ile Leu Asp Ala Val Asp Gly Arg Glu Cys
 1 5 10 15
 His His Leu Val His Cys Tyr Met Pro Gln Glu Ile Ile Ala Gln Pro
 20 25 30
 Phe Leu Asn Phe Lys Val Phe Leu Phe Asn Arg Phe Cys Thr Asp Cys
 35 40 45
 Lys Asn Lys Val Leu Arg Ala Tyr Asn Ile Leu Ile Gly Glu Leu Asp
 50 55 60
 Cys Ser Lys Glu Lys Gly Tyr Cys Ala Ala Leu Tyr Glu Gly Leu Arg
 65 70 75 80
 Cys Cys Pro His Glu Arg His Ile His Val Cys Cys Glu Thr Asp Phe
 85 90 95
 Ile Ala His Leu Leu Gly Arg Ala Glu Pro Glu Phe Ala Gly Gly Arg
 100 105 110
 Arg Glu Arg His Ala Lys Thr Ile Asp Ile Ala Gln Glu Glu Val Leu
 115 120 125
 Thr Cys Leu Gly Ile His Leu Tyr Glu Arg Leu His Arg Ile Trp Gln
 130 135 140
 Lys Leu Arg Ala Glu Glu Gln Thr Trp Gln Met Leu Phe Tyr Leu Gly
 145 150 155 160
 Val Asp Ala Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln
 165 170 175
 Gly Ile Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu
 180 185 190
 Arg Val Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn
 195 200 205
 Arg Arg Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr
 210 215 220
 Ala Asp Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu
 225 230 235 240
 Asn Ser Ser Cys Lys Ala Cys Gly Ser Thr Glu Asp Gly Asn Thr Cys
 245 250 255
 Val Glu Val Ile Val Thr Asn Glu Asn Thr Ser Cys Thr Cys Pro Ser
 260 265 270
 Ser Gly Asn Leu Leu Gly Ser Pro Lys Ile Lys Lys Gly Leu Ser Pro

275 280 285
 His Cys Asn Gly Ser Asp Cys Gly Tyr Ser Ser Ser Met Glu Gly Ser
 290 295 300
 Glu Thr Gly Ser Arg Glu Gly Ser Asp Val Ala Cys Thr Glu Gly Ile
 305 310 315 320
 Cys Asn His Asp Glu His Gly Asp Asp Ser Cys Val His His Cys Glu
 325 330 335
 Asp Lys Glu Asp Asp Gly Asp Ser Cys Val Glu Cys Trp Ala Asn Ser
 340 345 350
 Glu Glu Asn Asp Thr Lys Gly Lys Asn
 355 360

<210> 3528

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3528

Met Arg Pro Gln Ser Phe Arg Ser Arg Pro Trp Gly Val Arg Ala Pro
 1 5 10 15
 Pro Gly Asn Thr Val Arg Pro Gln Arg Leu Gln Pro Lys Leu Ala Arg
 20 25 30
 Ser Met Gly Gln Val Pro Leu Cys Leu Glu Lys Pro Gly Ala Leu Leu
 35 40 45
 Pro Cys Pro Pro Glu Pro Thr Ala Gly Arg Thr Pro Pro Ala Pro Pro
 50 55 60
 His Pro Val Ala Arg Asp Pro Ser Glu Asn Ser Glu Ala Gly Pro Arg
 65 70 75 80
 Ala Val Pro Ala Gly Ala Arg Pro Val Gly Arg Thr Gln Pro Arg Asn
 85 90 95
 Gln Leu Pro Glu Thr Arg Val Pro Leu Gly Cys Pro Pro Ala Trp Arg
 100 105 110
 Arg Pro Gln Ala Arg Ser His Pro Phe Pro Glu Leu Gln Asp Arg Ala
 115 120 125
 Ser Ser

130

<210> 3529

<211> 327

<212> PRT

<213> Homo sapiens

<400> 3529

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Met Gly Ile Cys Phe Glu Glu Lys Ser Cys Lys Cys Phe Cys Leu Ile
  1                   5                   10                   15
Phe Ile Ala Leu Gly Met Val Pro Pro Pro Glu Asn Val Arg Met Asn
                   20                   25                   30
Ser Val Asn Phe Lys Asn Ile Leu Gln Trp Glu Ser Pro Ala Phe Ala
                   35                   40                   45
Glu Gly Asn Leu Thr Phe Thr Ala Gln Tyr Leu Ser Tyr Arg Ile Phe
                   50                   55                   60
Gln Asp Lys Cys Met Asn Thr Thr Leu Thr Glu Cys Asp Phe Ser Ser
                   65                   70                   75                   80
Leu Ser Lys Tyr Gly Asp His Thr Leu Arg Val Arg Ala Glu Phe Ala
                   85                   90                   95
Asp Glu His Ser Asp Trp Val Asn Ile Thr Phe Cys Pro Val Asp Asp
                   100                  105                  110
Thr Ile Ile Gly Pro Pro Gly Met Gln Val Glu Val Leu Ala Asp Ser
                   115                  120                  125
Leu His Met Arg Phe Leu Ala Pro Lys Ile Glu Asn Glu Tyr Glu Thr
                   130                  135                  140
Trp Thr Met Lys Asn Val Tyr Asn Ser Trp Thr Tyr Asn Val Gln Tyr
                   145                  150                  155                  160
Trp Lys Asn Gly Thr Asp Glu Lys Phe Gln Ile Thr Pro Gln Tyr Asp
                   165                  170                  175
Phe Glu Val Leu Arg Asn Leu Glu Pro Trp Thr Thr Tyr Cys Val Gln
                   180                  185                  190
Val Arg Gly Phe Leu Pro Asp Arg Asn Lys Ala Gly Glu Trp Ser Glu
                   195                  200                  205
Pro Val Cys Glu Gln Thr Thr His Asp Glu Thr Val Pro Ser Trp Met

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210 215 220
 Val Ala Val Ile Leu Met Ala Ser Val Phe Met Val Cys Leu Ala Leu
 225 230 235 240
 Leu Gly Cys Phe Ala Leu Leu Trp Cys Val Tyr Lys Lys Thr Lys Tyr
 245 250 255
 Ala Phe Ser Pro Arg Asn Ser Leu Pro Gln His Leu Lys Glu Phe Leu
 260 265 270
 Gly His Pro His His Asn Thr Leu Leu Phe Phe Ser Phe Pro Leu Ser
 275 280 285
 Asp Glu Asn Asp Val Phe Asp Lys Leu Ser Val Ile Ala Glu Asp Ser
 290 295 300
 Glu Ser Gly Lys Gln Asn Pro Gly Asp Ser Cys Ser Leu Gly Thr Pro
 305 310 315 320
 Pro Gly Gln Gly Pro Gln Ser
 325

<210> 3530

<211> 182

<212> PRT

<213> Homo sapiens

<400> 3530

Met Leu Glu Lys Gly Ala Leu Asp Leu Ala Thr Ser Gly Leu Cys Thr
 1 5 10 15
 Pro Gly Ala Glu Gly Thr Gln Gly Cys Thr Tyr Thr Leu Lys Ala Thr
 20 25 30
 Val Arg Thr Gly Glu Gln Gly Gln Arg Ala Met Glu Ser Pro Ala Glu
 35 40 45
 Gly Cys Thr Ser Arg Leu Lys Arg Ala Leu Pro Ala Ser Ala Arg Lys
 50 55 60
 Pro Gly Leu Trp Gly Cys Val Ile Val Asp Asp His Phe Gln Val Met
 65 70 75 80
 Ala Thr Ala Pro Val Leu Val Thr Ala Gly Pro Pro Ile Leu Leu Arg
 85 90 95
 His Pro Pro Leu Ser His Arg Ala Val Phe Arg Ala Ser Ala Gly Leu

100 105 110
 Ser Cys Cys Ser Gln Thr Leu Ala Leu Arg Lys Ala Gly Gln Ser Thr
 115 120 125
 Ser Cys Ser Leu Arg Gly Gly Gln Val Phe Val Ser Lys Gly Gly Lys
 130 135 140
 Pro Gly Glu Arg Arg His Gln Ala Pro Glu Thr Phe Glu Met Thr Ser
 145 150 155 160
 Glu Asp Pro Gly Pro Leu Arg Val Thr Thr Ser Asp Ser Cys Leu Pro
 165 170 175
 Gln Ala Val Thr Asp Val
 180

<210> 3531

<211> 430

<212> PRT

<213> Homo sapiens

<400> 3531

Met Phe Asp Gly Tyr Asp Ser Cys Ser Glu Asp Thr Ser Ser Ser Ser
 1 5 10 15
 Ser Ser Glu Glu Ser Glu Glu Glu Val Ala Pro Leu Pro Ser Asn Leu
 20 25 30
 Pro Ile Ile Lys Asn Asn Gly Gln Val Tyr Thr Tyr Pro Asp Gly Lys
 35 40 45
 Ser Gly Met Ala Thr Cys Glu Met Cys Gly Met Val Gly Val Arg Asp
 50 55 60
 Ala Phe Tyr Ser Lys Thr Lys Arg Phe Cys Ser Val Ser Cys Ser Arg
 65 70 75 80
 Ser Tyr Ser Ser Asn Ser Lys Lys Ala Ser Ile Leu Ala Arg Leu Gln
 85 90 95
 Gly Lys Pro Pro Thr Lys Lys Ala Lys Val Leu Gln Lys Gln Pro Leu
 100 105 110
 Val Ala Lys Leu Ala Ala Tyr Ala Gln Tyr Gln Ala Thr Leu Gln Asn
 115 120 125
 Gln Ala Lys Thr Lys Ala Ala Val Ser Met Glu Gly Phe Ser Trp Gly

130	135	140	
Asn Tyr Ile Asn Ser Asn Ser Phe Ile Ala Ala Pro Val Thr Cys Phe			
145	150	155	160
Lys His Ala Pro Met Gly Thr Cys Trp Gly Asp Ile Ser Glu Asn Val			
	165	170	175
Arg Val Glu Val Pro Asn Thr Asp Cys Ser Leu Pro Thr Lys Val Phe			
	180	185	190
Trp Ile Ala Gly Ile Val Lys Leu Ala Gly Tyr Asn Ala Leu Leu Arg			
195	200	205	
Tyr Glu Gly Phe Glu Asn Asp Ser Gly Leu Asp Phe Trp Cys Asn Ile			
210	215	220	
Cys Gly Ser Asp Ile His Pro Val Gly Trp Cys Ala Ala Ser Gly Lys			
225	230	235	240
Pro Leu Val Pro Pro Arg Thr Ile Gln His Lys Tyr Thr Asn Trp Lys			
	245	250	255
Ala Phe Leu Val Lys Arg Leu Thr Gly Ala Lys Thr Leu Pro Pro Asp			
260	265	270	
Phe Ser Gln Lys Val Ser Glu Ser Met Gln Tyr Pro Phe Lys Pro Cys			
275	280	285	
Met Arg Val Glu Val Val Asp Lys Arg His Leu Cys Arg Thr Arg Val			
290	295	300	
Ala Val Val Glu Ser Val Ile Gly Gly Arg Leu Arg Leu Val Tyr Glu			
305	310	315	320
Glu Ser Glu Asp Arg Thr Asp Asp Phe Trp Cys His Met His Ser Pro			
	325	330	335
Leu Ile His His Ile Gly Trp Ser Arg Ser Ile Gly His Arg Phe Lys			
340	345	350	
Arg Ser Asp Ile Thr Lys Lys Gln Asp Gly His Phe Asp Thr Pro Pro			
355	360	365	
His Leu Phe Ala Lys Val Lys Glu Val Asp Gln Ser Gly Glu Trp Phe			
370	375	380	
Lys Glu Gly Met Lys Leu Glu Ala Ile Asp Pro Leu Asn Leu Ser Thr			
385	390	395	400
Ile Cys Val Ala Thr Ile Arg Lys Val Thr Gln Asn Phe Leu Leu Asn			
	405	410	415
Gly Leu Thr Thr Ser Gly Lys Leu Ala Pro Leu Gln His Gln			

420

425

430

<210> 3532

<211> 148

<212> PRT

<213> Homo sapiens

<400> 3532

Met Val Glu Gly Arg Arg Ala Leu Leu Gly Ala Trp Glu Ala Gly Phe
 1 5 10 15
 Arg Ala Ala Trp Ala Val Pro Pro Glu Gly Gln Asp Pro Thr Gly Gly
 20 25 30
 Ala Arg Ala Ala Thr Pro Gln Thr Asn Glu Phe Lys Gly Ala Thr Glu
 35 40 45
 Glu Ala Pro Ala Lys Glu Ser Pro His Thr Gly Glu Phe Lys Gly Ala
 50 55 60
 Ala Leu Val Ser Pro Ile Ser Lys Arg Met Leu Glu Arg Leu Ser Lys
 65 70 75 80
 Phe Glu Val Gly Asp Ala Glu Asn Val Ala Ser Tyr Glu Leu Phe Gly
 85 90 95
 Val Phe Leu Val Leu Leu Asp Val Thr Leu Val Leu Ala Asp Leu Ile
 100 105 110
 Phe Thr Asp Ser Lys Leu Tyr Ile Pro Leu Glu Tyr Arg Ser Ile Ser
 115 120 125
 Leu Ala Ile Ala Leu Phe Phe Leu Met Asp Val Leu Leu Arg Val Phe
 130 135 140
 Val Glu Gly Phe
 145

<210> 3533

<211> 199

<212> PRT

<213> Homo sapiens

<400> 3533

Met His Ala Cys Val Asn Thr Pro Gly Ser Tyr Arg Cys Thr Cys Pro
 1 5 10 15
 Gly Gly Tyr Arg Thr Leu Ala Asp Gly Lys Ser Cys Glu Asp Val Asp
 20 25 30
 Glu Cys Val Gly Leu Gln Pro Val Cys Pro Gln Gly Thr Thr Cys Ile
 35 40 45
 Asn Thr Gly Gly Ser Phe Gln Cys Val Ser Pro Glu Cys Pro Glu Gly
 50 55 60
 Ser Gly Asn Val Ser Tyr Val Lys Thr Ser Pro Phe Gln Cys Glu Arg
 65 70 75 80
 Asn Pro Cys Pro Met Asp Ser Arg Pro Cys Arg His Leu Pro Lys Thr
 85 90 95
 Ile Ser Phe His Tyr Leu Ser Leu Pro Ser Asn Leu Lys Thr Pro Ile
 100 105 110
 Thr Leu Phe Arg Met Ala Thr Ala Ser Ala Pro Gly Arg Ala Gly Pro
 115 120 125
 Asn Ser Leu Arg Phe Gly Ile Val Gly Gly Asn Ser Arg Gly His Phe
 130 135 140
 Val Met Gln Arg Ser Asp Arg Gln Thr Gly Asp Leu Ile Leu Val Gln
 145 150 155 160
 Asn Leu Glu Gly Pro Gln Thr Leu Glu Val Asp Val Asp Met Ser Glu
 165 170 175
 Tyr Leu Asp Arg Ser Phe Gln Ala Asn His Val Ser Lys Val Thr Ile
 180 185 190
 Phe Val Ser Pro Tyr Asp Phe
 195

<210> 3534

<211> 100

<212> PRT

<213> Homo sapiens

<400> 3534

Met Ile Leu Leu Glu Thr Arg Pro Ala Ser Thr Cys Pro Pro Trp Ser

1	5	10	15
Gln Glu Ala Leu Glu Glu Lys Cys Ser Ile Leu Asp Asp Phe Pro Arg			
20	25	30	
Pro Leu Cys Cys Gln Gln Trp Arg His Pro Glu Leu Ala Glu Val Gly			
35	40	45	
Thr Ser Tyr Leu Lys Pro Asn Lys Cys Ser Pro Ser Gly Pro Asn Pro			
50	55	60	
Gln Cys Leu Ala Leu Cys Leu Leu Ala Leu Ala Leu Thr Ile Gly Ala			
65	70	75	80
Ile His Thr Ala Ile Leu Glu Gly Arg Gly His Ser Pro Ser Ser Lys			
85	90	95	
Lys Glu Asp Gly			
100			

<210> 3535

<211> 176

<212> PRT

<213> Homo sapiens

<400> 3535

Met Ser Met Met Ser Ser Arg Lys Thr Met Lys Ala Thr Ile Pro Pro			
1	5	10	15
Met Met Ala Cys Pro Ala His Leu Arg Ile Phe Leu Glu Glu Asp Ala			
20	25	30	
Val Ala Pro Ser Thr Thr Arg Arg Gln His Trp Lys Gln Thr Gln Ser			
35	40	45	
Asn Arg Thr Pro Ser Ala Trp Leu Leu Ser Thr Lys Gln Arg Gly Asp			
50	55	60	
Gln Gln Asp Thr Asn His Lys Gly Thr Arg Thr Phe Ser His Cys Gln			
65	70	75	80
Ser Ser Ser Asp Trp Ser Gly Glu Ile Trp Gly Gln Arg Pro Glu Leu			
85	90	95	
Ser Ala Leu Ser Leu Leu Leu Ala Ser Tyr Asn Ser Leu Val Val Leu			
100	105	110	
Arg Gln Leu Pro His Ala Glu Val Cys Pro Trp Ser Gly Asn His Pro			

115	120	125
Ser Arg His Ser Asp Pro Lys Asn Ser Asp Leu Leu Ser Leu Gly Gly		
130	135	140
Leu Ala Leu Ile Pro Ser Thr Val Leu Met Ser Val Ser Ser Lys Gly		
145	150	155
Ala Ser Asp Val Ser Pro Thr Met His Phe Pro Tyr Ser Glu Lys Arg		
165	170	175

<210> 3536

<211> 203

<212> PRT

<213> Homo sapiens

<400> 3536

Met Asp Ser Ala Pro Ala Gly Ser Phe Ser Ala Ser Ser Phe Phe Asp
1 5 10 15
Leu Ser Val Thr Val Thr Arg Ala Lys Asn Ser Arg Gly Pro Ser Ser
20 25 30
Ser Pro Ser Glu Leu Gln Gly Ala His Cys Leu Thr Ser Ser Leu Ala
35 40 45
Ala Ala Cys Ser Val Ala Tyr Ser Ala Leu Trp Ser Ser Ser Pro Leu
50 55 60
Arg Ser Pro Trp Ser Ile Ser Ser Ile Thr Met Pro Arg Leu Ser Ser
65 70 75 80
Glu Glu Ser Ser Ala Ser Leu Leu Ala Gly Ala Asp Gly Arg Pro Pro
85 90 95
Arg Leu Leu Phe Leu Pro Phe Trp Val Asn Leu Leu Arg Leu Val Leu
100 105 110
Phe Leu Arg Pro Arg Arg Pro Leu Leu Gly Phe Leu Ala Ala Pro Arg
115 120 125
Ser Glu Pro Ala Cys Pro Val Thr Ser Pro Glu Ser Trp Ala Cys Val
130 135 140
Ser Glu Ala Gly Gly Val Gly Ala Ser Pro Gly Val Pro Ala Ser Ala
145 150 155 160
Ala Cys Val Gly Pro Ser Ser Ser Ser Arg Arg Leu Ile Cys Leu Arg

165 170 175
 Thr Leu Val Ser Cys Ala Arg Ser Phe His Arg Thr Leu Gln Thr Pro
 180 185 190
 Ser Leu Pro Gly Ile Ser Leu Gly Met Ala Ala
 195 200

<210> 3537

<211> 536

<212> PRT

<213> Homo sapiens

<400> 3537

Met Ser Ala Arg Val Pro Val Ser Phe Cys Ile Tyr Ile His Ala Cys
 1 5 10 15
 Val Pro Val Phe Leu Arg Val Leu Val Cys Ala Arg Val His Leu Cys
 20 25 30
 Val Cys Gln Ser Met Cys Ala Cys Val Cys Leu Ser Ala Tyr Pro Cys
 35 40 45
 Val His Val Cys Val Cys Gln Arg Ile Arg Val Cys Met Cys Val Ser
 50 55 60
 Val Ser Leu Thr Met Cys Ala Cys Val Cys Gln Cys Ile Arg Val Cys
 65 70 75 80
 Ile Cys Val Ser Val His Val Ser Ala Cys Ala Cys Val Tyr Leu Cys
 85 90 95
 Val Ser Ile Lys Gly Pro Pro Arg Pro Gly Ala His Arg Pro Pro Gln
 100 105 110
 Arg Thr Leu His Cys Ser Asp Ser Ser Ser Asp Thr Asp Ser Phe Tyr
 115 120 125
 Gly Ala Val Glu Arg Pro Val Asp Ile Ser Leu Ser Pro Tyr Pro Thr
 130 135 140
 Asp Asn Glu Asp Tyr Glu His Asp Asp Glu Asp Asp Ser Tyr Leu Glu
 145 150 155 160
 Pro Asp Ser Pro Glu Pro Gly Arg Leu Glu Asp Ala Leu Met His Pro
 165 170 175
 Pro Ala Tyr Pro Pro Pro Pro Val Pro Thr Pro Arg Lys Pro Ala Phe

180	185	190
Ser Asp Met Pro Arg Ala His	Ser Phe Thr Ser Lys Gly Pro Gly Pro	
195	200	205
Leu Leu Pro Pro Pro Pro Pro	Lys His Gly Leu Pro Asp Val Gly Leu	
210	215	220
Ala Ala Glu Asp Ser Lys Arg Asp	Pro Leu Cys Pro Arg Arg Ala Glu	
225	230	235
Pro Cys Pro Arg Val Pro Ala Thr	Pro Arg Arg Met Ser Asp Pro Pro	
245	250	255
Leu Ser Thr Met Pro Thr Ala Pro	Gly Leu Arg Lys Pro Pro Cys Phe	
260	265	270
Arg Glu Ser Ala Ser Pro Ser Pro	Glu Pro Trp Thr Pro Gly His Gly	
275	280	285
Ala Cys Ser Thr Ser Ser Ala Ala	Ile Met Ala Thr Ala Thr Ser Arg	
290	295	300
Asn Cys Asp Lys Leu Lys Ser Phe	His Leu Ser Pro Arg Gly Pro Pro	
305	310	315
Thr Ser Glu Pro Pro Pro Val Pro	Ala Asn Lys Pro Lys Phe Leu Lys	
325	330	335
Ile Ala Glu Glu Asp Pro Pro Arg	Glu Ala Ala Met Pro Gly Leu Phe	
340	345	350
Val Pro Pro Val Ala Pro Arg Pro	Pro Ala Leu Lys Leu Pro Val Pro	
355	360	365
Glu Ala Met Ala Arg Pro Ala Val	Leu Pro Arg Pro Glu Lys Pro Gln	
370	375	380
Leu Pro His Leu Gln Arg Ser Pro	Pro Asp Gly Gln Ser Phe Arg Ser	
385	390	395
Phe Ser Phe Glu Lys Pro Arg Gln	Pro Ser Gln Ala Asp Thr Gly Gly	
405	410	415
Asp Asp Ser Asp Glu Asp Tyr Glu	Lys Val Pro Leu Pro Asn Ser Val	
420	425	430
Phe Val Asn Thr Thr Glu Ser Cys	Glu Val Glu Arg Leu Phe Lys Ala	
435	440	445
Thr Ser Pro Arg Gly Glu Pro Gln	Asp Gly Leu Tyr Cys Ile Arg Asn	
450	455	460
Ser Ser Thr Lys Ser Gly Lys Val	Leu Val Val Trp Asp Glu Thr Ser	

465 470 475 480
 Asn Lys Val Arg Asn Tyr Arg Ile Phe Glu Lys Asp Ser Lys Phe Tyr
 485 490 495
 Leu Glu Gly Glu Val Leu Phe Val Ser Val Gly Ser Met Val Glu His
 500 505 510
 Tyr His Thr His Val Leu Pro Ser His Gln Ser Leu Leu Leu Arg His
 515 520 525
 Pro Tyr Gly Tyr Thr Gly Pro Arg
 530 535

<210> 3538

<211> 472

<212> PRT

<213> Homo sapiens

<400> 3538

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Pro His Leu Val Glu Ser Gly Gly Gly Leu Val Glu
 20 25 30
 Pro Gly Arg Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Ala Leu
 35 40 45
 Gly Asp Tyr Ala Val Ser Trp Leu Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Gly Phe Ile Arg Ser Glu Thr Leu Gly Gly Thr Pro Glu
 65 70 75 80
 Asn Ala Ala Ser Leu Glu Gly Arg Cys Leu Ile Ser Arg Asp Asp Ser
 85 90 95
 Lys Asn Ser Ala Tyr Leu His Leu Ser Ser Leu Lys Phe Glu Asp Thr
 100 105 110
 Gly Arg Tyr Tyr Cys Met Ala Asp Arg Tyr Asp Glu Arg Asp Tyr Phe
 115 120 125
 Tyr Val Gly Gly Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140
 Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr

145	150	155	160
Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro			
	165	170	175
Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val			
	180	185	190
His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser			
	195	200	205
Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile			
	210	215	220
Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val			
225	230	235	240
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala			
	245	250	255
Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro			
	260	265	270
Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val			
	275	280	285
Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val			
	290	295	300
Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln			
305	310	315	320
Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln			
	325	330	335
Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala			
	340	345	350
Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro			
	355	360	365
Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr			
	370	375	380
Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser			
385	390	395	400
Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr			
	405	410	415
Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr			
	420	425	430
Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe			

435 440 445
 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 450 455 460
 Ser Leu Ser Leu Ser Pro Gly Lys
 465 470

<210> 3539

<211> 447

<212> PRT

<213> Homo sapiens

<400> 3539

Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15
 Val Gln Cys Gln Val His Leu Val Glu Ser Gly Gly Gly Val Gly Gln
 20 25 30
 Pro Gly Lys Ser Leu Lys Leu Ser Cys Gln Ala Phe His Leu Asp Phe
 35 40 45
 Lys His Leu Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Leu Ala Val Ile Trp Tyr Asp Gly Ser Asn Ile Phe Tyr Ala
 65 70 75 80
 Asp Ser Ile Lys Asp Arg Phe Ile Ile Ser Arg Asp Asn Gly Asn Arg
 85 90 95
 Thr Leu Tyr Leu Gln Met Asp Asn Leu Arg Ala Asp Asp Thr Ala Val
 100 105 110
 Tyr Phe Cys Val Thr Gly Arg Arg Glu Ser Gly Ser Ser Leu Trp Gly
 115 120 125
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 130 135 140
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 145 150 155 160
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser

180	185	190
Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Gly Asn		
195	200	205
Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His		
210	215	220
Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val		
225	230	235
Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr		
245	250	255
Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu		
260	265	270
Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys		
275	280	285
Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser		
290	295	300
Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys		
305	310	315
Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile		
325	330	335
Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro		
340	345	350
Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu		
355	360	365
Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn		
370	375	380
Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser		
385	390	395
Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg		
405	410	415
Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu		
420	425	430
His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys		
435	440	445

<210> 3540

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3540

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Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Ser
 1             5             10             15
Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu
      20             25             30
Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Gly Arg Ser
      35             40             45
Ala Ser Val Arg Ser Glu Gly Asn Thr Ser Ser Leu Trp Asn Phe Ser
      50             55             60
Ala Gly Gln Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val
      65             70             75             80
Leu Ser Ser Ala Val Tyr Thr His Gly Cys Gly Cys Val Arg Ser Ala
      85             90             95
Thr Asn Ile Thr Cys Gln Ser Ser Gly Gln Gln Arg Gln Ala Ala Arg
      100            105            110
Gln Glu Glu Glu Asn Ser Ile Cys Lys Ala His Asp Ser Arg Glu Gly
      115            120            125
Arg Leu Gly Tyr Pro Leu Ser Ala His Gln Pro Gly Ser Gly Gly Pro
      130            135            140
Asn
145

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<210> 3541

<211> 805

<212> PRT

<213> Homo sapiens

<400> 3541

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Met Ala Ala Ser Gly Val Pro Arg Gly Cys Asp Ile Leu Ile Val Tyr
 1             5             10             15

```

Ser Pro Asp Ala Lys Glu Trp Cys Gln Tyr Leu Gln Thr Leu Phe Leu
 20 25 30
 Ser Ser Arg Gln Val Arg Ser Gln Lys Ile Leu Thr His Arg Leu Gly
 35 40 45
 Pro Glu Ala Ser Phe Ser Ala Glu Asp Leu Ser Leu Phe Leu Ser Thr
 50 55 60
 Arg Cys Val Val Val Leu Leu Ser Ala Glu Leu Val Gln His Phe His
 65 70 75 80
 Lys Pro Ala Leu Leu Pro Leu Leu Gln Arg Ala Phe His Pro Pro His
 85 90 95
 Arg Val Val Arg Leu Leu Cys Gly Val Arg Asp Ser Glu Glu Phe Leu
 100 105 110
 Asp Phe Phe Pro Asp Trp Ala His Trp Gln Glu Leu Thr Cys Asp Asp
 115 120 125
 Glu Pro Glu Thr Tyr Val Ala Ala Val Lys Lys Ala Ile Ser Glu Asp
 130 135 140
 Ser Gly Cys Asp Ser Val Thr Asp Thr Glu Pro Glu Asp Glu Lys Val
 145 150 155 160
 Val Ser Tyr Ser Lys Gln Gln Asn Leu Pro Thr Val Thr Ser Pro Gly
 165 170 175
 Asn Leu Met Val Val Gln Pro Asp Arg Ile Arg Cys Gly Ala Glu Thr
 180 185 190
 Thr Val Tyr Val Ile Val Arg Cys Lys Leu Asp Asp Arg Val Ala Thr
 195 200 205
 Glu Ala Glu Phe Ser Pro Glu Asp Ser Pro Ser Val Arg Met Glu Ala
 210 215 220
 Lys Val Glu Asn Glu Tyr Thr Ile Ser Val Lys Ala Pro Asn Leu Ser
 225 230 235 240
 Ser Gly Asn Val Ser Leu Lys Ile Tyr Ser Gly Asp Leu Val Val Cys
 245 250 255
 Glu Thr Val Ile Ser Tyr Tyr Thr Asp Met Glu Glu Ile Gly Asn Leu
 260 265 270
 Leu Ser Asn Ala Ala Asn Pro Val Glu Phe Met Cys Gln Ala Phe Lys
 275 280 285
 Ile Val Pro Tyr Asn Thr Glu Thr Leu Asp Lys Leu Leu Thr Glu Ser
 290 295 300

Leu Lys Asn Asn Ile Pro Ala Ser Gly Leu His Leu Phe Gly Ile Asn
 305 310 315 320
 Gln Leu Glu Glu Glu Asp Met Met Thr Asn Gln Arg Asp Glu Glu Leu
 325 330 335
 Pro Thr Leu Leu His Phe Ala Ala Lys Tyr Gly Leu Lys Asn Leu Thr
 340 345 350
 Ala Leu Leu Leu Thr Cys Pro Gly Ala Leu Gln Ala Tyr Ser Val Ala
 355 360 365
 Asn Lys His Gly His Tyr Pro Asn Thr Ile Ala Glu Lys His Gly Phe
 370 375 380
 Arg Asp Leu Arg Gln Phe Ile Asp Glu Tyr Val Glu Thr Val Asp Met
 385 390 395 400
 Leu Lys Ser His Ile Lys Glu Glu Leu Met His Gly Glu Glu Ala Asp
 405 410 415
 Ala Val Tyr Glu Ser Met Ala His Leu Ser Thr Asp Leu Leu Met Lys
 420 425 430
 Cys Ser Leu Asn Pro Gly Cys Asp Glu Asp Leu Tyr Glu Ser Met Ala
 435 440 445
 Ala Phe Val Pro Ala Ala Thr Glu Asp Leu Tyr Val Glu Met Leu Gln
 450 455 460
 Ala Ser Thr Ser Asn Pro Ile Pro Gly Asp Gly Phe Ser Arg Ala Thr
 465 470 475 480
 Lys Asp Ser Met Ile Arg Lys Phe Leu Glu Gly Asn Ser Met Gly Met
 485 490 495
 Thr Asn Leu Glu Arg Asp Gln Cys His Leu Gly Gln Glu Glu Asp Val
 500 505 510
 Tyr His Thr Val Asp Asp Asp Glu Ala Phe Ser Val Asp Leu Ala Ser
 515 520 525
 Arg Pro Pro Val Pro Val Pro Arg Pro Glu Thr Thr Ala Pro Gly Ala
 530 535 540
 His Gln Leu Pro Asp Asn Glu Pro Tyr Ile Phe Lys Val Phe Ala Glu
 545 550 555 560
 Lys Ser Gln Glu Arg Pro Gly Asn Phe Tyr Val Ser Ser Glu Ser Ile
 565 570 575
 Arg Lys Gly Pro Pro Val Arg Pro Trp Arg Asp Arg Pro Gln Ser Ser
 580 585 590

Ile Tyr Asp Pro Phe Ala Gly Met Lys Thr Pro Gly Gln Arg Gln Leu
 595 600 605
 Ile Thr Leu Gln Glu Gln Val Lys Leu Gly Ile Val Asn Val Asp Glu
 610 615 620
 Ala Val Leu His Phe Lys Glu Trp Gln Leu Asn Gln Lys Lys Arg Ser
 625 630 635 640
 Glu Ser Phe Arg Phe Gln Gln Glu Asn Leu Lys Arg Leu Arg Asp Ser
 645 650 655
 Ile Thr Arg Arg Gln Arg Glu Lys Gln Lys Ser Gly Lys Gln Thr Asp
 660 665 670
 Leu Glu Ile Thr Val Pro Ile Arg His Ser Gln His Leu Pro Ala Lys
 675 680 685
 Val Glu Phe Gly Val Tyr Glu Ser Gly Pro Arg Lys Ser Val Ile Pro
 690 695 700
 Pro Arg Thr Glu Leu Arg Arg Gly Asp Trp Lys Thr Asp Ser Thr Ser
 705 710 715 720
 Ser Thr Ala Ser Ser Thr Ser Asn Arg Ser Ser Thr Arg Ser Leu Leu
 725 730 735
 Ser Val Ser Ser Gly Met Glu Gly Asp Asn Glu Asp Asn Glu Val Pro
 740 745 750

 Glu Val Thr Arg Ser Arg Ser Pro Gly Pro Pro Gln Val Asp Gly Thr
 755 760 765
 Pro Thr Met Ser Leu Glu Arg Pro Pro Arg Val Pro Pro Arg Ala Ala
 770 775 780
 Ser Gln Arg Pro Pro Thr Arg Glu Thr Phe His Pro Pro Pro Pro Val
 785 790 795 800
 Pro Pro Arg Gly Arg
 805

<210> 3542

<211> 296

<212> PRT

<213> Homo sapiens

<400> 3542

Met Gly Trp Gly Cys Arg Val Pro Gly Trp Gly Gly Ala Ala Leu Gly
 1 5 10 15
 Arg Pro Asp Phe Gly Thr Gly Leu Arg Ala Arg Val Ser Gly Pro Gly
 20 25 30
 Ser Ala Gly Phe Arg Ala Glu Lys Glu Gly Gln Arg Lys Arg Ser Gly
 35 40 45
 Ser Pro Pro Ala Pro Ala Ser Leu Pro Glu Tyr Lys Pro Leu Glu Ala
 50 55 60

 Arg Phe Trp Val Ala Ala Ala Gln Pro Phe Arg Ser Pro Leu Leu Pro
 65 70 75 80
 Thr Asp Val Tyr Ser Cys Ser Leu Tyr Phe Ser Leu His Ser Pro Val
 85 90 95
 Glu Pro Pro Arg Gln Arg Arg Gly Arg Val Leu Leu Leu Ser Arg Leu
 100 105 110
 Arg Leu Pro Pro Ser His Pro Thr Ala Gln Glu Glu Leu Arg Ala Arg
 115 120 125
 Pro Trp Asp Gly Arg Ser Leu Gly Leu Leu Leu Ala Arg Ala Leu Pro
 130 135 140
 Gly Val Ala Ala Gly Pro Ser Pro Arg Arg Gly Gly His Ser Pro Gly
 145 150 155 160
 Ala Ala Glu Asn Glu Gly Ser Trp Ala Gly Met Leu Asn Phe Pro Ser
 165 170 175
 Pro Thr Phe Leu Ser Gln Leu Thr Gly Met Cys Ser Ser Ser Ala Arg
 180 185 190
 Arg Pro Ala Pro Arg Arg Ser Thr Thr Arg Gly Leu Arg Asn Tyr Lys
 195 200 205
 Ser Leu His Pro Pro Arg Gln Gly Gln Glu Arg Arg Gly Ala Gly Arg
 210 215 220
 Ser Gly Ala Arg Trp Trp Glu Leu Gly Thr Asn Lys Gly Gly Cys Gly
 225 230 235 240
 Glu Arg Cys Leu Leu Cys Thr Gly Gln Phe Ala Arg Tyr Thr Cys Ser
 245 250 255
 Leu Ser Asn Leu Arg Arg Asn Pro Val Arg His Tyr Cys Ile Gln Leu
 260 265 270

Arg Glu Ser Leu Thr Thr Gly Gln Thr Ser Gln Ser Ser Gln Val Val
275 280 285
Glu Met Ala Ser Asn Pro Glu Pro
290 295

<210> 3543
<211> 377
<212> PRT
<213> Homo sapiens

<400> 3543																	
Met	Ala	Thr	Ile	Pro	Asp	Trp	Lys	Leu	Gln	Leu	Leu	Ala	Arg	Arg	Arg		
1				5					10					15			
Gln	Glu	Glu	Ala	Ser	Val	Arg	Gly	Arg	Glu	Lys	Ala	Glu	Arg	Glu	Arg		
			20					25					30				
Leu	Ser	Gln	Met	Pro	Ala	Trp	Lys	Arg	Gly	Leu	Leu	Glu	Arg	Arg	Arg		
			35				40						45				
Ala	Lys	Leu	Gly	Leu	Ser	Pro	Gly	Glu	Pro	Ser	Pro	Val	Leu	Gly	Thr		
	50					55				60							
Val	Glu	Ala	Gly	Pro	Pro	Asp	Pro	Asp	Glu	Ser	Ala	Val	Leu	Leu	Glu		
65				70					75				80				
Thr	Ile	Gly	Pro	Val	His	Gln	Asn	Arg	Phe	Ile	Arg	Gln	Glu	Arg	Gln		
				85				90					95				
Gln	Gln	Gln	Gln	Gln	Gln	Gln	Arg	Ser	Glu	Glu	Leu	Leu	Ala	Glu	Arg		
			100					105					110				
Lys	Pro	Gly	Pro	Leu	Glu	Ala	Arg	Glu	Arg	Arg	Pro	Ser	Pro	Gly	Glu		
	115						120				125						
Met	Arg	Asp	Gln	Ser	Pro	Lys	Gly	Arg	Glu	Ser	Arg	Glu	Glu	Arg	Leu		
	130					135					140						
Ser	Pro	Arg	Glu	Thr	Arg	Glu	Arg	Arg	Leu	Gly	Ile	Gly	Gly	Ala	Gln		
145				150					155				160				
Glu	Leu	Ser	Leu	Arg	Pro	Leu	Glu	Ala	Arg	Asp	Trp	Arg	Gln	Ser	Pro		
			165					170					175				
Gly	Glu	Val	Gly	Asp	Arg	Ser	Ser	Arg	Leu	Ser	Glu	Ala	Trp	Lys	Trp		
	180						185					190					

Arg Leu Ser Pro Gly Glu Thr Pro Glu Arg Ser Leu Arg Leu Ala Glu
 195 200 205
 Ser Arg Glu Gln Ser Pro Arg Arg Lys Glu Val Glu Ser Arg Leu Ser
 210 215 220
 Pro Gly Glu Ser Ala Tyr Gln Lys Leu Gly Leu Thr Gly Ala His Lys
 225 230 235 240
 Trp Arg Pro Asp Ser Arg Glu Ser Gln Glu Gln Ser Leu Val Gln Leu
 245 250 255
 Glu Ala Thr Glu Trp Arg Leu Arg Ser Gly Glu Glu Arg Gln Asp Tyr
 260 265 270
 Ser Glu Glu Cys Gly Arg Lys Glu Glu Trp Pro Val Pro Gly Val Ala
 275 280 285
 Pro Lys Glu Thr Ala Glu Leu Ser Glu Thr Leu Thr Arg Glu Ala Gln
 290 295 300
 Gly Asn Ser Ser Ala Gly Val Glu Ala Ala Glu Gln Arg Pro Val Glu
 305 310 315 320
 Asp Gly Glu Arg Gly Met Lys Pro Thr Glu Gly Trp Lys Trp Thr Leu
 325 330 335
 Ile Met Ser Leu Ala Gly Lys Gly Asn Gln His Leu Val Thr Cys Phe
 340 345 350
 Pro His Pro Val Ser Gly Gly Arg Ala Asn Cys Pro Ile Ser Thr Leu
 355 360 365
 Ile Gln Ser Pro Trp Cys Gly Trp Gly
 370 375

<210> 3544

<211> 1215

<212> PRT

<213> Homo sapiens

<400> 3544

Met Glu Ile Gln Val Met Ile Gln Phe Leu Pro Val Ile Leu Met Gln
 1 5 10 15
 Leu Phe Arg Val Leu Thr Asn Met Thr His Glu Asp Asp Val Pro Ile
 20 25 30

Asn Cys Thr Met Val Leu Leu His Ile Val Ser Lys Cys His Glu Glu
 35 40 45
 Gly Leu Asp Ser Tyr Leu Arg Ser Phe Ile Lys Tyr Ser Phe Arg Pro
 50 55 60
 Glu Lys Pro Ser Ala Pro Gln Ala Gln Leu Ile His Glu Thr Leu Ala
 65 70 75 80
 Thr Thr Met Ile Ala Ile Leu Lys Gln Ser Ala Asp Phe Leu Ser Ile
 85 90 95
 Asn Lys Leu Leu Lys Tyr Ser Trp Phe Phe Phe Glu Ile Ile Ala Lys
 100 105 110
 Ser Met Ala Thr Tyr Leu Leu Glu Glu Asn Lys Ile Lys Leu Pro Arg
 115 120 125
 Gly Gln Arg Phe Pro Glu Thr Tyr His His Val Leu His Ser Leu Leu
 130 135 140
 Leu Ala Ile Ile Pro His Val Thr Ile Arg Tyr Ala Glu Ile Pro Asp
 145 150 155 160
 Glu Ser Arg Asn Val Asn Tyr Ser Leu Ala Ser Phe Leu Lys Arg Cys
 165 170 175
 Leu Thr Leu Met Asp Arg Gly Phe Ile Phe Asn Leu Ile Asn Asp Tyr
 180 185 190
 Ile Ser Gly Phe Ser Pro Lys Asp Pro Lys Val Leu Ala Glu Tyr Lys
 195 200 205
 Phe Glu Phe Leu Gln Thr Ile Cys Asn His Glu His Tyr Ile Pro Leu
 210 215 220
 Asn Leu Pro Met Ala Phe Ala Lys Pro Lys Leu Gln Arg Val Gln Asp
 225 230 235 240
 Ser Asn Leu Glu Tyr Ser Leu Ser Asp Glu Tyr Cys Lys His His Phe
 245 250 255
 Leu Val Gly Leu Leu Leu Arg Glu Thr Ser Ile Ala Leu Gln Asp Asn
 260 265 270
 Tyr Glu Ile Arg Tyr Thr Ala Ile Ser Val Ile Lys Asn Leu Leu Ile
 275 280 285
 Lys His Ala Phe Asp Thr Arg Tyr Gln His Lys Asn Gln Gln Ala Lys
 290 295 300
 Ile Ala Gln Leu Tyr Leu Pro Phe Val Gly Leu Leu Leu Glu Asn Ile
 305 310 315 320

Gln	Arg	Leu	Ala	Gly	Arg	Asp	Thr	Leu	Tyr	Ser	Cys	Ala	Ala	Met	Pro
				325				330				335			
Asn	Ser	Ala	Ser	Arg	Asp	Glu	Phe	Pro	Cys	Gly	Phe	Thr	Ser	Pro	Ala
				340				345				350			
Asn	Arg	Gly	Ser	Leu	Ser	Thr	Asp	Lys	Asp	Thr	Ala	Tyr	Gly	Ser	Phe
				355				360				365			
Gln	Asn	Gly	His	Gly	Ile	Lys	Arg	Glu	Asp	Ser	Arg	Gly	Ser	Leu	Ile
				370				375				380			
Pro	Glu	Gly	Ala	Thr	Gly	Phe	Pro	Asp	Gln	Gly	Asn	Thr	Gly	Glu	Asn
385				390				395				400			
Thr	Arg	Gln	Ser	Ser	Thr	Arg	Ser	Ser	Val	Ser	Gln	Tyr	Asn	Arg	Leu
				405				410				415			
Asp	Gln	Tyr	Glu	Ile	Arg	Ser	Leu	Leu	Met	Cys	Tyr	Leu	Tyr	Ile	Val
				420				425				430			
Lys	Met	Ile	Ser	Glu	Asp	Thr	Leu	Leu	Thr	Tyr	Trp	Asn	Lys	Val	Ser
				435				440				445			
Pro	Gln	Glu	Leu	Ile	Asn	Ile	Leu	Ile	Leu	Leu	Glu	Val	Cys	Leu	Phe
				450				455				460			
His	Phe	Arg	Tyr	Met	Gly	Lys	Arg	Asn	Ile	Ala	Arg	Val	His	Asp	Ala
465				470				475				480			
Trp	Leu	Ser	Lys	His	Phe	Gly	Ile	Asp	Arg	Lys	Ser	Gln	Thr	Met	Pro
				485				490				495			
Ala	Leu	Arg	Asn	Arg	Ser	Gly	Val	Met	Gln	Ala	Arg	Leu	Gln	His	Leu
				500				505				510			
Ser	Ser	Leu	Glu	Ser	Ser	Phe	Thr	Leu	Asn	His	Ser	Ser	Thr	Thr	Thr
				515				520				525			
Glu	Ala	Asp	Ile	Phe	His	Gln	Ala	Leu	Leu	Glu	Gly	Asn	Thr	Ala	Thr
				530				535				540			
Glu	Val	Ser	Leu	Thr	Val	Leu	Asp	Thr	Ile	Ser	Phe	Phe	Thr	Gln	Cys
545				550				555				560			
Phe	Lys	Thr	Gln	Leu	Leu	Asn	Asn	Asp	Gly	His	Asn	Pro	Leu	Met	Lys
				565				570				575			
Lys	Val	Phe	Asp	Ile	His	Leu	Ala	Phe	Leu	Lys	Asn	Gly	Gln	Ser	Glu
				580				585				590			
Val	Ser	Leu	Lys	His	Val	Phe	Ala	Ser	Leu	Arg	Ala	Phe	Ile	Ser	Lys
595				600				605							

Phe Pro Ser Ala Phe Phe Lys Gly Arg Val Asn Met Cys Ala Ala Phe
 610 615 620
 Cys Tyr Glu Val Leu Lys Cys Cys Thr Ser Lys Ile Ser Ser Thr Arg
 625 630 635 640
 Asn Glu Ala Ser Ala Leu Leu Tyr Leu Leu Met Arg Asn Asn Phe Glu
 645 650 655
 Tyr Thr Lys Arg Lys Thr Phe Leu Arg Thr His Leu Gln Ile Ile Ile
 660 665 670
 Ala Val Ser Gln Leu Ile Ala Asp Val Ala Leu Ser Gly Gly Ser Arg
 675 680 685
 Phe Gln Glu Ser Leu Phe Ile Ile Asn Asn Phe Ala Asn Ser Asp Arg
 690 695 700
 Pro Met Lys Ala Thr Ala Phe Pro Ala Glu Val Lys Asp Leu Thr Lys
 705 710 715 720
 Arg Ile Arg Thr Val Leu Met Ala Thr Ala Gln Met Lys Glu His Glu
 725 730 735
 Lys Asp Pro Glu Met Leu Ile Asp Leu Gln Tyr Ser Leu Ala Lys Ser
 740 745 750
 Tyr Ala Ser Thr Pro Glu Leu Arg Lys Thr Trp Leu Asp Ser Met Ala
 755 760 765
 Lys Ile His Val Lys Asn Gly Asp Phe Ser Glu Ala Ala Met Cys Tyr
 770 775 780
 Val His Val Ala Ala Leu Val Ala Glu Phe Leu His Arg Lys Lys Leu
 785 790 795 800
 Phe Pro Asn Gly Cys Ser Ala Phe Lys Lys Ile Thr Pro Asn Ile Asp
 805 810 815
 Glu Glu Gly Ala Met Lys Glu Asp Ala Gly Met Met Asp Val His Tyr
 820 825 830
 Ser Glu Glu Val Leu Leu Glu Leu Leu Glu Gln Cys Val Asp Gly Leu
 835 840 845
 Trp Lys Ala Glu Arg Tyr Glu Ile Ile Ser Glu Ile Ser Lys Leu Ile
 850 855 860
 Val Pro Ile Tyr Glu Lys Arg Arg Glu Phe Glu Lys Leu Thr Gln Val
 865 870 875 880
 Tyr Arg Thr Leu His Gly Ala Tyr Thr Lys Ile Leu Glu Val Met His
 885 890 895

Thr Lys Lys Arg Leu Leu Gly Thr Phe Phe Arg Val Ala Phe Tyr Gly
 900 905 910
 Gln Ser Phe Phe Glu Glu Glu Asp Gly Lys Glu Tyr Ile Tyr Lys Glu
 915 920 925
 Pro Lys Leu Thr Gly Leu Ser Glu Ile Ser Leu Arg Leu Val Lys Leu
 930 935 940
 Tyr Gly Glu Lys Phe Gly Thr Glu Asn Val Lys Ile Ile Gln Asp Ser
 945 950 955 960
 Asp Lys Val Asn Ala Lys Glu Leu Asp Pro Lys Tyr Ala His Ile Gln
 965 970 975
 Val Thr Tyr Val Lys Pro Tyr Phe Asp Asp Lys Glu Leu Thr Glu Arg
 980 985 990
 Lys Thr Glu Phe Glu Arg Asn His Asn Ile Ser Arg Phe Val Phe Glu
 995 1000 1005
 Ala Pro Tyr Thr Leu Ser Gly Lys Lys Gln Gly Cys Ile Glu Glu Gln
 1010 1015 1020
 Cys Lys Arg Arg Thr Ile Leu Thr Thr Ser Asn Ser Phe Pro Tyr Val
 1025 1030 1035 1040
 Lys Lys Arg Ile Pro Ile Asn Cys Glu Gln Gln Ile Asn Leu Lys Pro
 1045 1050 1055
 Ile Asp Val Ala Thr Asp Glu Ile Lys Asp Lys Thr Ala Glu Leu Gln
 1060 1065 1070
 Lys Leu Cys Ser Ser Thr Asp Val Asp Met Ile Gln Leu Gln Leu Lys
 1075 1080 1085
 Leu Gln Gly Cys Val Ser Val Gln Val Asn Ala Gly Pro Leu Ala Tyr
 1090 1095 1100
 Ala Arg Ala Phe Leu Asn Asp Ser Gln Ala Ser Lys Tyr Pro Pro Lys
 1105 1110 1115 1120
 Lys Val Ser Glu Leu Lys Asp Met Phe Arg Lys Phe Ile Gln Ala Cys
 1125 1130 1135
 Ser Ile Ala Leu Glu Leu Asn Glu Arg Leu Ile Lys Glu Asp Gln Val
 1140 1145 1150
 Glu Tyr His Glu Gly Leu Lys Ser Asn Phe Arg Asp Met Val Lys Glu
 1155 1160 1165
 Leu Ser Asp Ile Ile His Glu Gln Ile Leu Gln Glu Asp Thr Met His
 1170 1175 1180

Ser Pro Trp Met Ser Asn Thr Leu His Val Phe Cys Ala Ile Ser Gly
 1185 1190 1195 1200
 Thr Ser Ser Asp Arg Gly Tyr Gly Ser Pro Arg Tyr Ala Glu Val
 1205 1210 1215

<210> 3545

<211> 267

<212> PRT

<213> Homo sapiens

<400> 3545

Met His Tyr Ile Lys Thr Trp Ser Leu Leu Gly Glu Met Ser Glu Lys

1	5	10	15
Leu Arg Arg Cys Arg Lys Glu Leu Thr Ala Ala Ile Asp Arg Ala Phe			
20	25	30	
Glu Gly Val Ser Tyr Ser Gln Glu Cys Thr Gly Gln Gln Arg Leu Glu			
35	40	45	
Leu Ser Ala Ala Pro Leu Ser Phe Ser Leu Pro Val His Arg Leu Leu			
50	55	60	
Cys Arg Arg His Pro Leu Ala Ala Cys Ser Ser Ala Ala Pro Phe Ala			
65	70	75	80
Ala Val Pro Cys Ala Pro Glu Asn Glu Asn Pro Ala Phe Ala Thr Asn			
85	90	95	
His Ala Pro Val Asn Ala Lys Pro His Ala Leu Cys Pro Glu Arg Lys			
100	105	110	
Pro Leu Thr Ser Lys Glu Asn Val Leu Met His Ser Ser Ile Leu Ala			
115	120	125	
Pro Glu Arg Glu Ser Trp Arg Thr Ala Gly Glu Gly Glu Asn Trp Arg			
130	135	140	
Lys Glu Asn Leu Arg Lys Asp Met Glu Arg Asp Leu Lys Ala Asp Ser			
145	150	155	160
Asn Met Pro Leu Asn Asn Ser Ser Gln Glu Val Thr Lys Asp Leu Leu			
165	170	175	
Asp Met Ile Asp His Thr Ser Ile Arg Thr Ile Glu Glu Leu Ala Gly			

	180		185		190										
Lys	Ile	Glu	Phe	Glu	Asn	Glu	Leu	Asn	His	Met	Cys	Gly	His	Cys	Gln
	195					200						205			
Asp	Ser	Pro	Phe	Lys	Glu	Glu	Ala	Trp	Ala	Leu	Leu	Met	Asp	Lys	Ser
	210					215						220			
Pro	Gln	Lys	Ala	Thr	Asp	Ala	Asp	Pro	Gly	Ser	Leu	Lys	Gln	Ala	Phe
225					230					235				240	
Asp	Asp	His	Asn	Ile	Val	Glu	Thr	Val	Leu	Asp	Leu	Glu	Glu	Asp	Tyr
			245					250					255		
Asn	Val	Met	Thr	Ser	Phe	Lys	Tyr	Gln	Ile	Glu					
	260							265							

<210> 3546

<211> 184

<212> PRT

<213> Homo sapiens

<400> 3546

Met	Gly	Val	Cys	Arg	Thr	Gln	Tyr	Phe	Val	Thr	Gln	Val	Leu	Ser	Leu
1				5					10					15	
Val	Pro	Ile	Ser	Tyr	Phe	Ser	Trp	Ser	Ser	Pro	Phe	Ser	His	Pro	Gly
			20					25					30		
Thr	Lys	Phe	Trp	Thr	Gln	Leu	Lys	Phe	Ile	Cys	Gln	Thr	Leu	Val	Lys
	35						40					45			
Leu	Gly	Leu	Phe	Pro	Pro	Gln	Glu	Ser	Gly	Ile	Arg	Asp	Leu	Ile	Pro
	50					55					60				
Gly	Ser	Val	Ile	Asp	Ala	Thr	Met	Phe	Asn	Pro	Cys	Gly	Tyr	Ser	Met
65				70					75					80	
Asn	Gly	Met	Lys	Ser	Asp	Gly	Thr	Tyr	Trp	Thr	Ile	His	Ile	Thr	Pro
			85						90				95		
Glu	Pro	Glu	Phe	Ser	Tyr	Val	Ser	Phe	Glu	Thr	Asn	Leu	Ser	Gln	Thr
	100							105					110		
Ser	Tyr	Asp	Asp	Leu	Ile	Arg	Lys	Val	Val	Glu	Val	Phe	Lys	Pro	Gly
	115						120						125		
Lys	Phe	Val	Thr	Thr	Leu	Phe	Val	Asn	Gln	Ser	Ser	Lys	Cys	Arg	Thr

130 135 140
 Val Leu Ala Ser Pro Gln Lys Ile Glu Gly Phe Lys Arg Leu Asp Cys
 145 150 155 160
 Gln Ser Ala Met Phe Asn Asp Tyr Asn Phe Val Phe Thr Ser Phe Ala
 165 170 175
 Lys Lys Gln Gln Gln Gln Ser
 180

<210> 3547

<211> 132

<212> PRT

<213> Homo sapiens

<400> 3547

Met Met Tyr Val Pro Gln Asn Gln Val Ile Leu Ser Val Leu Phe Gln
 1 5 10 15
 Tyr Phe Phe Val Asn Leu Trp Ser Cys Ala Pro Ile Thr Thr Ile Pro
 20 25 30
 Ile Leu Glu Arg Leu Tyr His Phe Leu Phe Pro Ser Pro Ala Leu Cys
 35 40 45
 Asn His Glu Ser Ala Phe Cys Leu Tyr Gly Phe Ala Phe Phe Arg His
 50 55 60
 Leu Tyr Gln Trp Gln Leu Thr Val His Gly Leu His Ala Trp Leu Leu
 65 70 75 80
 Ser Leu Ser Ile Leu Phe Pro Arg Phe Ile His Val Val Ala Cys Gly
 85 90 95
 Ser Ala Ser Phe Leu Ser Val Ala Glu Glu Tyr Ser Ile Val Trp Thr
 100 105 110
 Asp Arg Val Leu Ile Ile His Ser Ser Val Asp Gly His Arg Gly Cys
 115 120 125
 Phe His Leu Pro
 130

<210> 3548

<211> 115

<212> PRT

<213> Homo sapiens

<400> 3548

Met Ala Cys His Phe Tyr Leu Ser Thr Ser Ala His Gln Leu Met Pro
 1 5 10 15
 Leu Ile His Ala Pro Phe Cys Cys Ser Pro Leu His Ser Trp Gln Pro
 20 25 30
 Leu His Ser Ile His Pro Phe Pro Gln Thr Trp Ala Cys Cys Tyr Gln
 35 40 45
 Gln Gly Ala Val Met Asp Pro Ser Gln Gly Pro Leu Ile Pro Arg Ala
 50 55 60
 Ser Leu Ser Leu Gly Ser Ser Ser Gln His Cys Trp Ser Gly Gly Thr
 65 70 75 80
 His Thr His Ile Phe Pro Lys Cys Tyr Gln Cys Tyr Gly Val Ile Arg
 85 90 95
 Asn Phe Ile Tyr Leu Phe Phe Ala Asn Met Ile Ala Ile Lys Leu Pro
 100 105 110
 His Leu Tyr
 115

<210> 3549

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3549

Met Ala Ser Pro Asp Pro Pro Ala Thr Ser Tyr Ala Pro Ser Asp Val
 1 5 10 15
 Pro Ser Gly Val Ala Leu Phe Leu Thr Ile Pro Phe Ala Phe Phe Leu
 20 25 30
 Pro Glu Leu Ile Phe Gly Phe Leu Val Trp Thr Met Val Ala Ala Thr
 35 40 45
 His Ile Val Tyr Pro Leu Leu Gln Gly Trp Val Met Tyr Val Ser Leu

50 55 60
 Thr Ser Phe Leu Ile Ser Leu Met Phe Leu Leu Ser Tyr Leu Phe Gly
 65 70 75 80
 Phe Tyr Lys Arg Phe Glu Ser Trp Arg Val Leu Asp Ser Leu Tyr His
 85 90 95
 Gly Thr Thr Gly Ile Leu Tyr Met Ser Ala Ala Val Leu Gln Val His
 100 105 110
 Ala Thr Ile Val Ser Glu Lys Leu Leu Asp Pro Arg Ile Tyr Tyr Ile
 115 120 125
 Asn Ser Ala Ala Ser Phe Phe Ala Phe Ile Ala Thr Leu Leu Tyr Ile
 130 135 140
 Leu His Ala Phe Ser Ile Tyr Tyr His
 145 150

<210> 3550

<211> 127

<212> PRT

<213> Homo sapiens

<400> 3550

Met Val Cys Asp Phe Thr Pro Leu Cys Leu Ile Ile Cys Gln Gln Thr
 1 5 10 15
 Tyr Trp Ala Lys His Lys Trp Leu Arg His Ser Trp Pro Ile Ser Cys
 20 25 30
 His Arg Cys His Pro Gln Arg Gln Thr Leu Gly Asn Asn Leu Gly Thr
 35 40 45
 Ala Ser Ser Pro Cys Gln Val Met Ala Ser Ser Ala Ser Gln His Val
 50 55 60
 Pro Gly Leu Pro Leu Gly Ala Gly Phe Ser Ala Gly Leu Arg Asp Ser
 65 70 75 80
 Trp Lys Glu Pro Gln Gly Lys Val Arg Arg Ser Ser Trp Tyr Arg Leu
 85 90 95
 Met Thr Lys Glu Arg Thr Arg Lys Ala Ala Trp Val Trp Trp Lys Phe
 100 105 110
 Gln Cys Asn Val Ile Pro Ser Arg His Ile Cys Asp Ser Leu Lys

115

120

125

<210> 3551

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3551

Met Phe Thr Glu Tyr Gln Ala Leu Lys Gly Gln Asn His Pro Pro Thr
 1 5 10 15
 Gly Pro Ala Leu Gly Pro Gly His Pro Ala Gly Ala Gly Cys Ala Glu
 20 25 30
 Arg His Ala Glu Val Arg Ala Gly Ala Asp Arg Glu Cys Phe Gly Glu
 35 40 45
 Ala Pro Leu Tyr Pro Asn Thr Cys Cys Ile Val Cys Val Ser Leu Asn
 50 55 60
 Arg Val Thr Ala Ala Gly Val Val Leu Tyr Arg Glu Pro Cys Pro Arg
 65 70 75 80
 Ala Leu Ser Phe Pro Phe Leu His Phe Leu Phe Tyr Ala Gln Phe Ser
 85 90 95
 Ser Leu Gly Thr Val Leu Leu Phe Phe Ser Phe Ser Phe Pro His Leu
 100 105 110
 Ile Ile Phe Ile Pro
 115

<210> 3552

<211> 103

<212> PRT

<213> Homo sapiens

<400> 3552

Met Ile Cys Tyr Ser Leu Gly Leu Gln Pro Pro Leu Leu Pro Gln His
 1 5 10 15
 Val Leu Cys Thr Val Ala Ile Leu Ser Ser Phe Gly Ser Ala Pro Ile

20 25 30
 Val Cys Ser Leu Lys Phe Leu Ala Pro Leu Ser Met Ser Ser Val Phe
 35 40 45
 Arg Met Pro Phe Ser Ile Ser Ser Tyr Leu Cys Pro Ala Thr Leu His
 50 55 60
 Leu Thr Ser Pro Leu Phe Lys Leu Phe Ile Ser Pro Phe Leu Thr Leu
 65 70 75 80
 Leu Gly Phe Ser Leu Arg Pro Lys Ser Phe Leu Gln Val Leu Pro Lys
 85 90 95
 Pro Pro Lys Ser Gln Leu Ile
 100

<210> 3553

<211> 153

<212> PRT

<213> Homo sapiens

<400> 3553

Met Pro Ser Ser Val Ala Gly Glu Thr Ser Val Leu Ala Val Pro Ser
 1 5 10 15
 Trp Arg Asp His Ser Val Glu Pro Leu Arg Asp Pro Asn Pro Ser Asp
 20 25 30
 Leu Leu Glu Asn Leu Asp Asp Ser Val Phe Ser Lys Arg His Ala Lys
 35 40 45
 Leu Glu Leu Asp Glu Lys Arg Arg Lys Arg Trp Asp Ile Gln Arg Ile
 50 55 60
 Arg Glu Gln Arg Ile Leu Gln Arg Leu Gln Leu Arg Met Tyr Lys Lys
 65 70 75 80
 Lys Gly Ile Gln Glu Ser Glu Pro Glu Val Thr Ser Phe Phe Pro Glu
 85 90 95
 Pro Asp Asp Val Glu Ser Leu Met Ile Thr Pro Phe Leu Pro Val Val
 100 105 110
 Ala Phe Gly Arg Pro Leu Pro Lys Leu Thr Pro Gln Asn Phe Glu Leu
 115 120 125
 Pro Trp Leu Asp Glu Arg Ser Arg Cys Arg Leu Glu Ile Gln Lys Lys

130 135 140
 Gln Thr Pro His Arg Thr Cys Arg Lys
 145 150

<210> 3554

<211> 1099

<212> PRT

<213> Homo sapiens

<400> 3554

Met Leu Arg Ser Asp Ser Glu Asn Ile Leu Thr Asn Tyr Glu Asn Gln
 1 5 10 15
 Ser Arg Val Glu Thr Asn Glu Arg Ala Asn Glu Cys Ser His Ser Lys
 20 25 30
 Asn Ile Gln Asn Phe Pro Ser Asp Leu Ile Glu Asn Pro Ile Met Lys
 35 40 45
 Ser Lys Met Ser Lys Phe Tyr Gly Val Asn Glu Thr Glu Asn Glu Asp
 50 55 60
 Asn Thr Asn Arg Asp Ser Pro Ile Phe Asp Tyr Ser Pro Arg Leu Ser
 65 70 75 80
 Ala Leu Leu Ser His Asp Lys Leu Met His Ser Gln Gly Ser Phe Asn
 85 90 95
 Asp Thr His Thr Pro Glu Ser Asn Gly Asn Lys Cys Glu Ala Pro Ala
 100 105 110
 Leu Ser Phe Ser Asp Lys Thr Met Leu Ser Gly Gln Arg Ile Gly Glu
 115 120 125
 Lys Phe Gln Asp Gln Phe Leu Gly Ile Ala Ala Ile Asn Ile Ser Leu
 130 135 140
 Pro Gly Glu Gln Tyr Gly Gln Lys Ser Leu Asn Met Ile Ser Ser Asn
 145 150 155 160
 Pro Gln Val Gln Tyr His Asn Asp Lys Tyr Ile Ser Asn Thr Ser Gly
 165 170 175
 Glu Asp Glu Lys Thr His Pro Gly Phe Gln Gln Met Pro Glu Asp Lys
 180 185 190
 Glu Asp Glu Ser Glu Ile Glu Glu Tyr Ser Cys Ala Val Thr Pro Gly

195	200	205
Gly Asp Thr Asp Asn Ala Ile Val Ser Leu Thr Cys Ala Thr Pro Leu		
210	215	220
Leu Asp Glu Thr Ile Ser Ala Ser Asp Tyr Glu Thr Ser Leu Leu Asn		
225	230	235
240		
Asp Gln Gln Asn Asn Thr Gly Thr Asp Thr Asp Ser Asp Asp Asp Phe		
245	250	255
Tyr Asp Thr Pro Leu Phe Glu Asp Asp Asp His Asp Ser Leu Leu Leu		
260	265	270
Asp Gly Asp Asp Arg Asp Cys Leu His Pro Glu Asp Tyr Asp Thr Leu		
275	280	285
Gln Glu Glu Asn Asp Glu Thr Ala Ser Pro Ala Asp Val Phe Tyr Asp		
290	295	300
Val Ser Lys Glu Asn Glu Asn Ser Met Val Pro Gln Gly Ala Pro Val		
305	310	315
320		
Gly Ser Leu Ser Val Lys Asn Lys Ala His Cys Leu Gln Asp Phe Leu		
325	330	335
Met Asp Val Glu Lys Asp Glu Leu Asp Ser Gly Glu Lys Ile His Leu		
340	345	350
Asn Pro Val Gly Ser Asp Lys Val Asn Gly Gln Ser Leu Glu Thr Gly		
355	360	365
Ser Glu Arg Glu Cys Thr Asn Ile Leu Glu Gly Asp Glu Ser Asp Ser		
370	375	380
Leu Thr Asp Tyr Asp Ile Val Gly Gly Lys Glu Ser Phe Thr Ala Ser		
385	390	395
400		
Leu Lys Phe Asp Asp Ser Gly Ser Trp Arg Gly Arg Lys Glu Glu Tyr		
405	410	415
Val Thr Gly Gln Glu Phe His Ser Asp Thr Asp His Leu Asp Ser Met		
420	425	430
Gln Ser Glu Glu Ser Tyr Gly Asp Tyr Ile Tyr Asp Ser Asn Asp Gln		
435	440	445
Asp Asp Asp Asp Asp Asp Gly Ile Asp Glu Glu Gly Gly Gly Ile Arg		
450	455	460
Asp Glu Asn Gly Lys Pro Arg Cys Gln Asn Val Ala Glu Asp Met Asp		
465	470	475
480		
Ile Gln Leu Cys Ala Ser Ile Leu Asn Glu Asn Ser Asp Glu Asn Glu		

	485		490		495
Asn Ile Asn Thr Met Ile Leu Leu Asp Lys Val His Ser Cys Ser Ser					
500		505		510	
Leu Glu Lys Gln Gln Arg Val Asn Val Val Gln Leu Ala Ser Pro Ser					
515		520		525	
Glu Asn Asn Leu Val Thr Glu Lys Ser Asn Leu Pro Glu Tyr Thr Thr					
530		535		540	
Glu Ile Ala Gly Lys Ser Lys Glu Asn Leu Leu Asn His Glu Met Val					
545		550		555	
Leu Lys Asp Val Leu Pro Pro Ile Ile Lys Asp Thr Glu Ser Glu Lys					
565		570		575	
Thr Phe Gly Pro Ala Ser Ile Ser His Asp Asn Asn Asn Ile Ser Ser					
580		585		590	
Thr Ser Glu Leu Gly Thr Asp Leu Ala Asn Thr Lys Val Lys Leu Ile					
595		600		605	
Gln Gly Ser Glu Leu Pro Glu Leu Thr Asp Ser Val Lys Gly Lys Asp					
610		615		620	
Glu Tyr Phe Lys Asn Met Thr Pro Lys Val Asp Ser Ser Leu Asp His					
625		630		635	
Ile Ile Cys Thr Glu Pro Asp Leu Ile Gly Lys Pro Ala Glu Glu Ser					
645		650		655	
His Leu Ser Leu Ile Ala Ser Val Thr Asp Lys Asp Pro Gln Gly Asn					
660		665		670	
Gly Ser Asp Leu Ile Lys Gly Arg Asp Gly Lys Ser Asp Ile Leu Ile					
675		680		685	
Glu Asp Glu Thr Ser Ile Gln Lys Met Tyr Leu Gly Glu Gly Glu Val					
690		695		700	
Leu Val Glu Gly Leu Val Glu Glu Glu Asn Arg His Leu Lys Leu Leu					
705		710		715	
Pro Gly Lys Asn Thr Arg Asp Ser Phe Lys Leu Ile Asn Ser Gln Phe					
725		730		735	
Pro Phe Pro Gln Ile Thr Asn Asn Glu Glu Leu Asn Gln Lys Gly Ser					
740		745		750	
Leu Lys Lys Ala Thr Val Thr Leu Lys Asp Glu Pro Asn Asn Leu Gln					
755		760		765	

Ile Ile Val Ser Lys Ser Pro Val Gln Phe Glu Asn Leu Glu Glu Ile
 770 775 780
 Phe Asp Thr Ser Val Ser Lys Glu Ile Ser Asp Asp Ile Thr Ser Asp
 785 790 795 800
 Ile Thr Ser Trp Glu Gly Asn Thr His Phe Glu Glu Ser Phe Thr Asp
 805 810 815
 Gly Pro Glu Lys Glu Leu Asp Leu Phe Thr Tyr Leu Lys His Cys Ala
 820 825 830
 Lys Asn Ile Lys Ala Lys Asp Val Ala Lys Pro Asn Glu Asp Val Pro
 835 840 845
 Ser His Val Leu Ile Thr Ala Pro Pro Met Lys Glu His Leu Gln Leu
 850 855 860
 Gly Val Asn Asn Thr Lys Glu Lys Ser Thr Ser Thr Gln Lys Asp Ser
 865 870 875 880
 Pro Leu Asn Asp Met Ile Gln Ser Asn Asp Leu Cys Ser Lys Glu Ser
 885 890 895
 Ile Ser Gly Gly Gly Thr Glu Ile Ser Gln Phe Thr Pro Glu Ser Ile
 900 905 910
 Glu Ala Thr Leu Ser Ile Leu Ser Arg Lys His Val Glu Asp Val Gly
 915 920 925
 Lys Asn Asp Phe Leu Gln Ser Glu Arg Cys Ala Asn Gly Leu Gly Asn
 930 935 940
 Asp Asn Ser Ser Asn Thr Leu Asn Thr Asp Tyr Ser Phe Leu Glu Ile
 945 950 955 960
 Asn Asn Lys Lys Glu Arg Ile Glu Gln Gln Leu Pro Lys Glu Gln Ala
 965 970 975
 Leu Ser Pro Arg Ser Gln Glu Lys Glu Val Gln Ile Pro Glu Leu Ser
 980 985 990
 Gln Val Phe Val Glu Asp Val Lys Asp Ile Leu Lys Ser Arg Leu Lys
 995 1000 1005
 Glu Gly His Met Lys Pro Gln Glu Val Glu Glu Pro Ser Ala Cys Ala
 1010 1015 1020
 Asp Thr Lys Ile Leu Ile Gln Asn Leu Ile Lys Arg Ile Thr Thr Ser
 1025 1030 1035 1040
 Gln Leu Val Asn Glu Ala Ser Thr Val Pro Ser Asp Ser Gln Met Ser
 1045 1050 1055

Asp Ser Ser Gly Val Ser Pro Met Thr Asn Ser Ser Glu Leu Lys Pro
 1060 1065 1070
 Glu Ser Arg Asp Asp Pro Phe Cys Ile Gly Asn Leu Lys Ser Glu Leu
 1075 1080 1085
 Leu Leu Asn Ile Leu Lys Gln Asp Gln His Ser
 1090 1095

<210> 3555

<211> 265

<212> PRT

<213> Homo sapiens

<400> 3555

Met Gln Gln Thr Ala Pro Asn Thr Leu Pro Thr Ala Ser Met Ser Ile
 1 5 10 15
 Ser Gly Pro Gly Tyr Ser His Ala Gly Pro Ala Ser Gln Gly Val Pro
 20 25 30
 Met Gln Gly Gln Gly Thr Ile Gly Asn Tyr Val Ser Arg Thr Asn Ile
 35 40 45
 Asn Met Gln Ser Asn Pro Val Ser Met Met Gln Gln Gln Ala Ala Thr
 50 55 60
 Ser His Tyr Ser Ser Ala Gln Gly Gly Ser Gln His Tyr Gln Gly Gln
 65 70 75 80
 Ser Ser Ile Ala Met Met Gly Gln Gly Ser Gln Gly Ser Ser Met Met
 85 90 95
 Gly Gln Arg Pro Met Ala Pro Tyr Arg Pro Ser Gln Gln Gly Ser Ser
 100 105 110
 Gln Gln Tyr Leu Gly Gln Glu Glu Tyr Tyr Gly Glu Gln Tyr Ser His
 115 120 125
 Ser Gln Gly Ala Ala Glu Pro Met Gly Gln Gln Tyr Tyr Pro Asp Gly
 130 135 140
 His Gly Asp Tyr Ala Tyr Gln Gln Ser Ser Tyr Thr Glu Gln Ser Tyr
 145 150 155 160
 Asp Arg Ser Phe Glu Glu Ser Thr Gln His Tyr Tyr Glu Gly Gly Asn
 165 170 175

Ser Gln Tyr Ser Gln Gln Gln Ala Gly Tyr Gln Gln Gly Ala Ala Gln
 180 185 190
 Gln Gln Thr Tyr Ser Gln Gln Gln Tyr Pro Ser Gln Gln Ser Tyr Pro
 195 200 205
 Gly Gln Gln Gln Gly Tyr Gly Ser Ala Gln Gly Ala Pro Ser Gln Tyr
 210 215 220
 Pro Gly Tyr Gln Gln Gly Gln Gly Gln Gln Tyr Gly Ser Tyr Arg Ala
 225 230 235 240
 Pro Gln Thr Ala Pro Ser Ala Gln Gln Gln Arg Pro Tyr Gly Tyr Glu
 245 250 255
 Gln Gly Gln Tyr Gly Asn Tyr Gln Gln
 260 265

<210> 3556

<211> 133

<212> PRT

<213> Homo sapiens

<400> 3556

Met Phe Ser Tyr Glu Lys Tyr Thr Leu Phe Ile Leu Ser Ser Ser Phe
 1 5 10 15
 Phe Phe Phe Phe Arg Trp Ser Leu Ala Leu Val Thr Gln Ala Gly Val
 20 25 30
 Gln Trp Arg Asn Leu Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys
 35 40 45
 Arg Phe Ser Cys Ser Ser Leu Pro Tyr Ser Trp Asp Tyr Arg Cys Leu
 50 55 60
 Pro Pro Cys Pro Ala Asn Phe Cys Val Phe Ser Arg Asp Gly Val Ser
 65 70 75 80
 Pro His Arg Pro Gly Ser Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
 85 90 95
 Thr Leu Ala Ser Leu Asn Thr Gly Ile Thr Gly Val Ser His Cys Ile
 100 105 110
 Arg Pro His Phe Val Phe Phe Asn Ser Val Ile Gly Ile Ser Phe Phe

115	120	125
Phe Phe Phe Asn Val		
130		
<210> 3557		
<211> 309		
<212> PRT		
<213> Homo sapiens		
<400> 3557		
Met Ser Ser Cys Gln Gly Ser Leu His Gly Pro Arg Arg Pro Gln Pro		
1 5 10 15		
Gly Ala Ser Gly Arg Ser Thr His Thr Asp Gly Gly Gly Ser Ser Pro		
20 25 30		
Ala Gly Glu Gln Glu Pro Ser Gln His Arg Thr Gly Ala Ala Val Gln		
35 40 45		
Arg Lys Pro Trp Pro Ser Gly Gly Leu Trp Arg Gln Asp Gln Gln Pro		
50 55 60		
Gly Pro Gly Glu Ala Pro His Thr Gln Ala Phe Gly Glu Trp Pro Trp		
65 70 75 80		
Gly Gln Glu Leu Gly Ser Arg Ala Pro Gly Leu Gly Gly Asp Ala Gly		
85 90 95		
Ser Pro Ala Pro Pro Phe His Ser Ser Ser Tyr Arg Ile Ser Leu Ala		
100 105 110		
Gly Val Glu Pro Ser Leu Val Gln Ala Ala Leu Gly Gln Leu Val Arg		
115 120 125		
Leu Ser Cys Ser Asp Asp Thr Ala Pro Glu Ser Gln Ala Ala Trp Gln		
130 135 140		
Lys Asp Gly Gln Pro Ile Ser Ser Asp Arg His Arg Leu Gln Phe Asp		
145 150 155 160		
Gly Ser Leu Ile Ile His Pro Leu Gln Ala Glu Asp Ala Gly Thr Tyr		
165 170 175		
Ser Cys Gly Ser Thr Arg Pro Gly Arg Asp Ser Gln Lys Ile Gln Leu		
180 185 190		
Arg Ile Ile Gly Gly Asp Met Ala Val Leu Ser Glu Ala Glu Leu Ser		

195	200	205
Arg Phe Pro Gln Pro Arg Asp	Pro Ala Gln Asp Phe Gly Gln Ala Gly	
210	215	220
Ala Ala Gly Pro Leu Gly Ala Ile Pro Ser Ser His Pro Gln Pro Ala		
225	230	235
240		
Asn Arg Leu Arg Leu Asp Gln Asn Gln Pro Arg Val Val Asp Ala Ser		
245	250	255
Pro Gly Gln Arg Ile Arg Met Thr Cys Arg Ala Glu Gly Phe Pro Pro		
260	265	270
Pro Ala Ile Glu Trp Gln Arg Asp Gly Gln Pro Val Ser Ser Pro Ser		
275	280	285
Thr His Arg Pro Ala Gln Gly Pro Trp Gln Gly Leu Arg Arg Pro Ala		
290	295	300
Arg Ala Gly Gln Leu		
305		

<210> 3558

<211> 784

<212> PRT

<213> Homo sapiens

<400> 3558

Met Pro His Thr Leu Trp Met Val Trp Val Leu Gly Val Ile Ile Ser		
1	5	10
15		
Leu Ser Lys Glu Glu Ser Ser Asn Gln Ala Ser Leu Ser Cys Asp Arg		
20	25	30
Asn Gly Ile Cys Lys Gly Ser Ser Gly Ser Leu Asn Ser Thr Pro Ser		
35	40	45
Gly Leu Thr Glu Ala Val Lys Ser Leu Asp Leu Ser Asn Asn Arg Ile		
50	55	60
Thr Tyr Ile Ser Asn Ser Asp Leu Gln Arg Cys Val Asn Leu Gln Ala		
65	70	75
80		
Leu Val Leu Thr Ser Asn Gly Ile Asn Thr Ile Glu Glu Asp Ser Phe		
85	90	95
Ser Ser Leu Gly Ser Leu Glu His Leu Asp Leu Ser Tyr Asn Tyr Leu		

100	105	110
Ser Asn Leu Ser Ser Ser Trp Phe Lys Pro Leu Ser Ser Leu Thr Phe		
115	120	125
Leu Asn Leu Leu Gly Asn Pro Tyr Lys Thr Leu Gly Glu Thr Ser Leu		
130	135	140
Phe Ser His Leu Thr Lys Leu Gln Ile Leu Arg Val Gly Asn Met Asp		
145	150	155
Thr Phe Thr Lys Ile Gln Arg Lys Asp Phe Ala Gly Leu Thr Phe Leu		
165	170	175
Glu Glu Leu Glu Ile Asp Ala Ser Asp Leu Gln Ser Tyr Glu Pro Lys		
180	185	190
Ser Leu Lys Ser Ile Gln Asn Val Ser His Leu Ile Leu His Met Lys		
195	200	205
Gln His Ile Leu Leu Leu Glu Ile Phe Val Asp Val Thr Ser Ser Val		
210	215	220
Glu Cys Leu Glu Leu Arg Asp Thr Asp Leu Asp Thr Phe His Phe Ser		
225	230	235
Glu Leu Ser Thr Gly Glu Thr Asn Ser Leu Ile Lys Lys Phe Thr Phe		
245	250	255
Arg Asn Val Lys Ile Thr Asp Glu Ser Leu Phe Gln Val Met Lys Leu		
260	265	270
Leu Asn Gln Ile Ser Gly Leu Leu Glu Leu Glu Phe Asp Asp Cys Thr		
275	280	285
Leu Asn Gly Val Gly Asn Phe Arg Ala Ser Asp Asn Asp Arg Val Ile		
290	295	300
Asp Pro Gly Lys Val Glu Thr Leu Thr Ile Arg Arg Leu His Ile Pro		
305	310	315
Arg Phe Tyr Leu Phe Tyr Asp Leu Ser Thr Leu Tyr Ser Leu Thr Glu		
325	330	335
Arg Val Lys Arg Ile Thr Val Glu Asn Ser Lys Val Phe Leu Val Pro		
340	345	350
Cys Leu Leu Ser Gln His Leu Lys Ser Leu Glu Tyr Leu Asp Leu Ser		
355	360	365
Glu Asn Leu Met Val Glu Glu Tyr Leu Lys Asn Ser Ala Cys Glu Asp		
370	375	380
Ala Trp Pro Ser Leu Gln Thr Leu Ile Leu Arg Gln Asn His Leu Ala		

385	390	395	400
Ser Leu Glu Lys Thr Gly Glu Thr Leu Leu Thr Leu Lys Asn Leu Thr			
405	410	415	
Asn Ile Asp Ile Ser Lys Asn Ser Phe His Ser Met Pro Glu Thr Cys			
420	425	430	
Gln Trp Pro Glu Lys Met Lys Tyr Leu Asn Leu Ser Ser Thr Arg Ile			
435	440	445	
His Ser Val Thr Gly Cys Ile Pro Lys Thr Leu Glu Ile Leu Asp Val			
450	455	460	
Ser Asn Asn Asn Leu Asn Leu Phe Ser Leu Asn Leu Pro Gln Leu Lys			
465	470	475	480
Glu Leu Tyr Ile Ser Arg Asn Lys Leu Met Thr Leu Pro Asp Ala Ser			
485	490	495	
Leu Leu Pro Met Leu Leu Val Leu Lys Ile Ser Arg Asn Ala Ile Thr			
500	505	510	
Thr Phe Ser Lys Glu Gln Leu Asp Ser Phe His Thr Leu Lys Thr Leu			
515	520	525	
Glu Ala Gly Gly Asn Asn Phe Ile Cys Ser Cys Glu Phe Leu Ser Phe			
530	535	540	
Thr Gln Glu Gln Gln Ala Leu Ala Lys Val Leu Ile Asp Trp Pro Ala			
545	550	555	560
Asn Tyr Leu Cys Asp Ser Pro Ser His Val Arg Gly Gln Gln Val Gln			
565	570	575	
Asp Val Arg Leu Ser Val Ser Glu Cys His Arg Thr Ala Leu Val Ser			
580	585	590	
Gly Met Cys Cys Ala Leu Phe Leu Leu Ile Leu Leu Thr Gly Val Leu			
595	600	605	
Cys His Arg Phe His Gly Leu Trp Tyr Met Lys Met Met Trp Ala Trp			
610	615	620	
Leu Gln Ala Lys Arg Lys Pro Arg Lys Ala Pro Ser Arg Asn Ile Cys			
625	630	635	640
Tyr Asp Ala Phe Val Ser Tyr Ser Glu Arg Asp Ala Tyr Trp Val Glu			
645	650	655	
Asn Leu Met Val Gln Glu Leu Glu Asn Phe Asn Pro Pro Phe Lys Leu			
660	665	670	
Cys Leu His Lys Arg Asp Phe Ile Pro Gly Lys Trp Ile Ile Asp Asn			

675	680	685
Ile Ile Asp Ser Ile Glu Lys Ser His Lys Thr Val Phe Val Leu Ser		
690	695	700
Glu Asn Phe Val Lys Ser Glu Trp Cys Lys Tyr Glu Leu Asp Phe Ser		
705	710	715
His Phe Arg Leu Phe Asp Glu Asn Asn Asp Ala Ala Ile Leu Ile Leu		
725	730	735
Leu Glu Pro Ile Glu Lys Lys Ala Ile Pro Gln Arg Phe Cys Lys Leu		
740	745	750
Arg Lys Ile Met Asn Thr Lys Thr Tyr Leu Glu Trp Pro Met Asp Glu		
755	760	765
Ala Gln Arg Glu Gly Phe Trp Val Asn Leu Arg Ala Ala Ile Lys Ser		
770	775	780

<210> 3559

<211> 289

<212> PRT

<213> Homo sapiens

<400> 3559

Met Lys Asp Arg Leu Glu Gln Leu Lys Ala Lys Gln Leu Thr Gln Asp		
1	5	10
Asp Asp Thr Asp Ala Val Glu Ile Ala Ile Asp Asn Thr Ala Phe Met		
20	25	30
Asp Glu Phe Phe Ser Glu Ile Glu Glu Thr Arg Leu Asn Ile Asp Lys		
35	40	45
Ile Ser Glu His Val Glu Glu Ala Lys Lys Leu Tyr Ser Ile Ile Leu		
50	55	60
Ser Ala Pro Ile Pro Glu Pro Lys Thr Lys Asp Asp Leu Glu Gln Leu		
65	70	75
Thr Thr Glu Ile Lys Lys Arg Ala Asn Asn Val Arg Asn Lys Leu Lys		
85	90	95
Ser Met Glu Lys His Ile Glu Glu Asp Glu Val Arg Ser Ser Ala Asp		
100	105	110

Leu Arg Ile Arg Lys Ser Gln His Ser Val Leu Ser Arg Lys Phe Val
 115 120 125
 Glu Val Met Thr Lys Tyr Asn Glu Ala Gln Val Asp Phe Arg Glu Arg
 130 135 140
 Ser Lys Gly Arg Ile Gln Arg Gln Leu Glu Ile Thr Gly Lys Lys Thr
 145 150 155 160
 Thr Asp Glu Glu Leu Glu Glu Met Leu Glu Ser Gly Asn Pro Ala Ile
 165 170 175
 Phe Thr Ser Gly Ile Ile Asp Ser Gln Ile Ser Lys Gln Ala Leu Ser
 180 185 190
 Glu Ile Glu Gly Arg His Lys Asp Ile Val Arg Leu Glu Ser Ser Ile
 195 200 205
 Lys Glu Leu His Asp Met Phe Met Asp Ile Ala Met Leu Val Glu Asn
 210 215 220
 Gln Gly Glu Met Leu Asp Asn Ile Glu Leu Asn Val Met His Thr Val
 225 230 235 240
 Asp His Val Glu Lys Ala Arg Asp Glu Thr Lys Lys Ala Val Lys Tyr
 245 250 255
 Gln Ser Gln Ala Arg Lys Lys Leu Ile Ile Ile Ile Val Leu Val Val
 260 265 270
 Val Leu Leu Gly Ile Leu Ala Leu Ile Ile Gly Leu Ser Val Gly Leu
 275 280 285
 Asn

<210> 3560

<211> 143

<212> PRT

<213> Homo sapiens

<400> 3560

Met Ser Ile Tyr Leu Cys Thr Tyr Met Ala Tyr Phe Ser Thr Gly Ile
 1 5 10 15
 Gln Tyr Ile Ile Val Ala Ser Gly Leu Ser Glu Ala Ser Phe Thr His

	20		25		30										
Ser	Ile	Ser	Pro	Leu	Phe	Tyr	Lys	Gln	Ser	Lys	Pro	Thr	Leu	Phe	Lys
	35		40		45										
Asn	Phe	Leu	Leu	Leu	Leu	Phe	Leu	Leu	Leu	Gly	Arg	Ser	Leu	Ala	
	50		55		60										
Leu	Ser	Pro	Arg	Leu	Glu	Cys	Ala	Val	Ser	Ala	His	Cys	Lys	Leu	His
	65		70		75									80	
Phe	Pro	Gly	Ser	Arg	His	Phe	Pro	Ala	Ser	Ala	Ser	Gln	Ala	Ala	Gly
			85		90									95	
Thr	Ala	Gly	Ala	Arg	His	His	Ala	Arg	Leu	Ile	Phe	Cys	Ile	Phe	Gly
	100		105		110										
Gly	Asp	Gly	Val	Ser	Pro	Cys	Trp	Pro	Gly	Trp	Ser	Gln	Ser	Pro	Asp
	115		120		125										
Leu	Val	Ile	Trp	Ser	Arg	Ser	Pro	Asp	Leu	Met	Ile	Cys	Leu	Pro	
	130		135		140										

<210> 3561

<211> 1229

<212> PRT

<213> Homo sapiens

<400> 3561

Met	Met	Leu	Asn	Gly	Ala	Asp	Ala	Val	His	Phe	Arg	Val	Leu	Met	Lys
1		5		10		15									
Leu	Phe	Ile	Lys	Val	His	Leu	Glu	Asp	Val	Phe	Gln	Leu	Phe	Lys	Phe
	20		25		30										
Cys	Ser	Val	Leu	Trp	Thr	Tyr	Gly	Ser	Ser	Leu	Ser	Asn	Pro	Leu	Asn
	35		40		45										
Cys	Ser	Val	Lys	Thr	Val	Leu	Gln	Thr	Gln	Ala	Leu	Tyr	Val	Gly	Cys
	50		55		60										
Ala	Met	Leu	Ser	Ser	Gln	Lys	Thr	Gln	Cys	Lys	His	Gln	Leu	Ala	Ser
	65		70		75									80	
Ile	Ser	Ser	Pro	Val	Val	Thr	Ser	Leu	Leu	Ile	Asn	Leu	Gly	Ser	Pro
			85		90									95	
Val	Lys	Glu	Val	Arg	Arg	Ala	Ala	Ile	Gln	Cys	Leu	Gln	Ala	Leu	Ser

100	105	110
Gly Val Ala Ser Pro Phe Tyr Leu Ile Ile Asp His Leu Ile Ser Lys		
115	120	125
Ala Glu Glu Ile Thr Ser Asp Ala Ala Tyr Val Ile Gln Asp Leu Ala		
130	135	140
Thr Leu Phe Glu Glu Leu Gln Arg Glu Lys Lys Leu Lys Ser His Gln		
145	150	155
Lys Leu Ser Glu Thr Leu Lys Asn Leu Leu Ser Cys Val Tyr Ser Cys		
165	170	175
Pro Ser Tyr Ile Ala Lys Asp Leu Met Lys Val Leu Gln Gly Val Asn		
180	185	190
Gly Glu Ile Thr Lys Pro Phe Phe Ala Ala Ile Ser Asp Glu Lys Val		
195	200	205
Gln Gln Lys Leu Leu Arg Met Leu Phe Asp Leu Leu Val Asn Cys Lys		
210	215	220
Asn Ser His Cys Ala Gln Thr Val Ser Ser Val Phe Lys Gly Ile Ser		
225	230	235
Val Asn Ala Glu Gln Val Arg Ile Glu Leu Glu Pro Pro Asp Lys Ala		
245	250	255
Lys Pro Leu Gly Thr Val Gln Gln Lys Arg Arg Gln Lys Met Gln Gln		
260	265	270
Lys Lys Ser Gln Asp Leu Glu Ser Val Gln Glu Val Gly Gly Ser Tyr		
275	280	285
Trp Gln Arg Val Thr Leu Ile Leu Glu Leu Leu Gln His Lys Lys Lys		
290	295	300
Leu Arg Ser Pro Gln Ile Leu Val Pro Thr Leu Phe Asn Leu Leu Ser		
305	310	315
Arg Cys Leu Glu Pro Leu Pro Gln Glu Gln Gly Asn Met Glu Tyr Thr		
325	330	335
Lys Gln Leu Ile Leu Ser Cys Leu Leu Asn Ile Cys Gln Lys Leu Ser		
340	345	350
Pro Asp Gly Gly Lys Ile Pro Lys Asp Ile Leu Asp Glu Glu Lys Phe		
355	360	365
Asn Val Glu Leu Ile Val Gln Cys Ile Arg Leu Ser Glu Met Pro Gln		
370	375	380
Thr His His His Ala Leu Leu Leu Leu Gly Thr Val Ala Gly Ile Phe		

385	390	395	400
Pro Asp Lys Val Leu His Asn Ile Met Ser Ile Phe Thr Phe Met Gly			
	405	410	415
Ala Asn Val Met Arg Leu Asp Asp Thr Tyr Ser Phe Gln Val Ile Asn			
	420	425	430
Lys Thr Val Lys Met Val Ile Pro Ala Leu Ile Gln Ser Asp Ser Gly			
	435	440	445
Asp Ser Ile Glu Val Ser Arg Asn Val Glu Glu Ile Val Val Lys Ile			
	450	455	460
Ile Ser Val Phe Val Asp Ala Leu Pro His Val Pro Glu His Arg Arg			
465	470	475	480
Leu Pro Ile Leu Val Gln Leu Val Asp Thr Leu Gly Ala Glu Lys Phe			
	485	490	495
Leu Trp Ile Leu Leu Ile Leu Leu Phe Glu Gln Tyr Val Thr Lys Thr			
	500	505	510
Val Leu Ala Ala Ala Tyr Gly Glu Lys Asp Ala Ile Leu Glu Ala Asp			
	515	520	525
Thr Glu Phe Trp Phe Ser Val Cys Cys Glu Phe Ser Val Gln His Gln			
	530	535	540
Ile Gln Ser Leu Met Asn Ile Leu Gln Tyr Leu Leu Lys Leu Pro Glu			
545	550	555	560
Glu Lys Glu Glu Thr Ile Pro Lys Ala Val Ser Phe Asn Lys Ser Glu			
	565	570	575
Ser Gln Glu Glu Met Leu Gln Val Phe Asn Val Glu Thr His Thr Ser			
	580	585	590
Lys Gln Leu Arg His Phe Lys Phe Leu Ser Val Ser Phe Met Ser Gln			
	595	600	605
Leu Leu Ser Ser Asn Asn Phe Leu Lys Lys Val Val Glu Ser Gly Gly			
	610	615	620
Pro Glu Ile Leu Lys Gly Leu Glu Glu Arg Leu Leu Glu Thr Val Leu			
625	630	635	640
Gly Tyr Ile Ser Ala Val Ala Gln Ser Met Glu Arg Asn Ala Asp Lys			
	645	650	655
Leu Thr Val Lys Phe Trp Arg Ala Leu Leu Ser Lys Ala Tyr Asp Leu			
	660	665	670
Leu Asp Lys Val Asn Ala Leu Leu Pro Thr Glu Thr Phe Ile Pro Val			

675	680	685
Ile Arg Gly Leu Val Gly Asn Pro Leu Pro Ser Val Arg Arg Lys Ala		
690	695	700
Leu Asp Leu Leu Asn Asn Lys Leu Gln Gln Asn Ile Ser Trp Lys Lys		
705	710	715
Thr Ile Val Thr Arg Phe Leu Lys Leu Val Pro Asp Leu Leu Ala Ile		
725	730	735
Val Gln Arg Lys Lys Lys Glu Gly Glu Glu Glu Gln Ala Ile Asn Arg		
740	745	750
Gln Thr Ala Leu Tyr Thr Leu Lys Leu Leu Cys Lys Asn Phe Gly Ala		
755	760	765
Glu Asn Pro Asp Pro Phe Val Pro Val Leu Asn Thr Ala Val Lys Leu		
770	775	780
Ile Ala Pro Glu Arg Lys Glu Glu Lys Asn Val Leu Gly Ser Ala Leu		
785	790	795
Leu Cys Ile Ala Glu Val Thr Ser Thr Leu Glu Ala Leu Ala Ile Pro		
805	810	815
Gln Leu Pro Ser Leu Met Pro Pro Leu Leu Thr Thr Met Lys Asn Thr		
820	825	830
Ser Glu Leu Val Ser Ser Glu Val Tyr Leu Leu Ser Ala Leu Ala Ala		
835	840	845
Leu Gln Lys Val Val Glu Thr Leu Pro His Phe Ile Ser Pro Tyr Leu		
850	855	860
Glu Gly Ile Leu Ser Gln Val Ile His Leu Glu Lys Ile Thr Ser Glu		
865	870	875
Met Gly Ser Ala Ser Gln Ala Asn Ile Arg Leu Thr Ser Leu Lys Lys		
885	890	895
Thr Leu Ala Thr Thr Leu Ala Pro Arg Val Leu Leu Pro Ala Ile Lys		
900	905	910
Lys Thr Tyr Lys Gln Ile Glu Lys Asn Trp Lys Asn His Met Gly Pro		
915	920	925
Phe Met Gly Ile Leu Gln Glu His Ile Gly Val Met Lys Lys Glu Glu		
930	935	940
Leu Thr Ser His Gln Ser Gln Leu Thr Ala Phe Phe Leu Glu Ala Leu		
945	950	955
Asp Phe Arg Ala Gln His Ser Glu Asn Asp Leu Glu Glu Val Gly Lys		

965	970	975
Thr Glu Asn Cys Ile Ile Asp Cys Leu Val Ala Met Val Val Lys Leu		
980	985	990
Ser Glu Val Thr Phe Arg Pro Leu Phe Phe Lys Leu Phe Asp Trp Ala		
995	1000	1005
Lys Thr Glu Asp Ala Pro Lys Asp Arg Leu Leu Thr Phe Tyr Asn Leu		
1010	1015	1020
Ala Asp Cys Ile Ala Glu Lys Leu Lys Gly Leu Phe Thr Leu Phe Ala		
1025	1030	1035
Gly His Leu Val Lys Pro Phe Ala Asp Thr Leu Asn Gln Val Asn Ile		
1045	1050	1055
Ser Lys Thr Asp Glu Ala Phe Phe Asp Ser Glu Asn Asp Pro Glu Lys		
1060	1065	1070
Cys Cys Leu Leu Leu Gln Phe Ile Leu Asn Cys Leu Tyr Lys Ile Phe		
1075	1080	1085
Leu Phe Asp Thr Gln His Phe Ile Ser Lys Glu Arg Ala Glu Ala Leu		
1090	1095	1100
Met Met Pro Leu Val Asp Gln Leu Glu Asn Arg Leu Gly Gly Glu Glu		
1105	1110	1115
Lys Phe Gln Glu Arg Val Thr Lys His Leu Ile Pro Cys Ile Ala Gln		
1125	1130	1135
Phe Ser Val Ala Met Ala Asp Asp Ser Leu Trp Lys Pro Leu Asn Tyr		
1140	1145	1150
Gln Ile Leu Leu Lys Thr Arg Asp Ser Ser Pro Lys Val Arg Phe Ala		
1155	1160	1165
Ala Leu Ile Thr Val Leu Ala Leu Ala Glu Lys Leu Lys Glu Asn Tyr		
1170	1175	1180
Ile Val Leu Leu Pro Glu Ser Ile Pro Phe Leu Ala Glu Leu Met Glu		
1185	1190	1195
Asp Glu Cys Glu Glu Val Glu His Gln Cys Gln Lys Thr Ile Gln Gln		
1205	1210	1215
Leu Glu Thr Val Leu Gly Glu Pro Leu Gln Ser Tyr Phe		
1220	1225	

<211> 104

<212> PRT

<213> Homo sapiens

<400> 3562

```

Met Ser Arg Arg Arg Glu Glu Thr His Cys Trp Lys Lys Gln Pro Met
  1              5              10              15
Thr Ala Pro Leu Pro Gly Thr Arg Pro His Pro Leu Pro Ala Pro Leu
      20              25              30
Pro Gly Val Gln Pro Lys Arg Thr Tyr Val Leu Thr Pro Leu Lys Pro
      35              40              45
Leu Val Leu Ser Pro Gln Glu Thr Trp Leu Cys Val Cys Glu Trp Leu
      50              55              60
Thr Phe Leu His Pro Leu Val Leu Pro Phe Pro Ser Arg Gly Thr Glu
      65              70              75              80
Arg Gln Gly Arg Ile His Val Pro Ile Val Glu Ala Glu Lys Arg Glu
      85              90              95
Ser Val Leu Tyr Thr Val Leu Ile
      100

```

<210> 3563

<211> 324

<212> PRT

<213> Homo sapiens

<400> 3563

```

Met Leu Arg Ala Phe Leu Phe Leu Ser Leu Phe Pro His Ser Gln Val
  1              5              10              15
Leu Val Tyr Glu Leu Leu Leu Gly Lys Gly Phe Arg Gly Gly Gly Gly
      20              25              30
Arg Trp Lys Ala Leu Leu Gly Arg His Gln Ala Arg Leu Lys Ala Glu
      35              40              45
Leu Ala Arg Leu Lys Val His Arg Gly Val Ser Arg Asn Glu Asp Leu
      50              55              60
Leu Glu Val Gly Ser Arg Pro Gly Pro Ala Ser Gln Leu Pro Arg Phe

```

65	70	75	80
Val Arg Val Asn Thr Leu Lys Thr Cys Ser Asp Asp Val Val Asp Tyr			
	85	90	95
Phe Lys Arg Gln Gly Phe Ser Tyr Gln Gly Arg Ala Ser Ser Leu Asp			
	100	105	110
Asp Leu Arg Ala Leu Lys Gly Lys His Phe Leu Leu Asp Pro Leu Met			
	115	120	125
Pro Glu Leu Leu Val Phe Pro Ala Gln Thr Asp Leu His Glu His Pro			
	130	135	140
Leu Tyr Arg Ala Gly His Leu Ile Leu Gln Asp Arg Ala Ser Cys Leu			
145	150	155	160
Pro Ala Met Leu Leu Asp Pro Pro Pro Gly Ser His Val Ile Asp Ala			
	165	170	175
Cys Ala Ala Pro Gly Asn Lys Thr Ser His Leu Ala Ala Leu Leu Lys			
	180	185	190
Asn Gln Gly Ser Leu Pro Leu Thr Trp Met Pro Ser Gly Trp His Pro			
	195	200	205
Trp Pro Arg Cys Trp Pro Gly Leu Ala Ser Leu Ala Val Asn Trp Leu			
	210	215	220
Arg Arg Thr Ser Trp Arg Ser Pro Pro Arg Ile His Ala Thr Met Arg			
225	230	235	240
Ser Thr Thr Ser Cys Trp Ile Leu Pro Ala Val Ala Arg Val Cys Arg			
	245	250	255
Ala Asp Ser Trp Arg Ser Pro Gly Gln Ala His Leu Ala Arg Cys Val			
	260	265	270
Cys Met Pro Trp Gln Gly Ser Ser Ser Glu Pro Cys Ala Thr Arg Ser			
	275	280	285
Leu Ser Leu Pro Cys Ser Gly Ser Ser Thr Pro Arg Ala Pro Ser Ala			
	290	295	300
Arg Arg Arg Met Lys Thr Trp Cys Glu Met Arg Cys Ser Arg Thr Arg			
305	310	315	320
Ala Pro Ser Gly			

<211> 130

<212> PRT

<213> Homo sapiens

<400> 3564

```

Met Val Ser Val Arg Gly Gln Cys Pro Arg Gly Gly Phe Trp Leu Glu
  1             5             10             15
Pro Ser Val Ala Glu Ala Gly Asp Leu Leu Ala Val Asn Ser Gly Val
      20             25             30
Cys Arg Pro Gly Gly His Arg Gly Arg Ser Ser Ala Leu Gly Pro Leu
      35             40             45
Cys Gly Ser Trp Thr Arg Ser Arg Glu Pro Gln Arg Pro Val Pro Ser
      50             55             60
Pro Arg Gly Asp Leu Gly Pro Arg Pro Trp Ser Pro Leu Trp Ala Ala
      65             70             75             80
Leu Arg Pro Gln Pro Arg Val Ser Pro Asp Cys Ser Val Thr Ala Gly
      85             90             95
Gly Ser Trp Gly Asp Pro Ile Ser Val Cys Gly Val Cys Ala Phe Lys
      100            105            110
Lys Pro Leu Gly Trp Lys Pro Tyr Asp Glu Ser Thr Gly Ala Phe Pro
      115            120            125
His Leu
      130

```

<210> 3565

<211> 121

<212> PRT

<213> Homo sapiens

<400> 3565

```

Met Ser Leu Thr Phe Arg Arg Pro Lys Thr Leu Arg Leu Arg Arg Gln
  1             5             10             15
Pro Arg Tyr Pro Arg Lys Ser Thr Pro Thr Arg Asn Lys Leu Gly His
      20             25             30
Tyr Ala Ile Ile Lys Phe Pro Leu Ala Thr Glu Ser Ala Val Lys Lys

```

35 40 45
 Ile Glu Glu Asn Asn Thr Leu Val Phe Thr Val Asp Val Lys Asp Asn
 50 55 60
 Lys His Gln Ile Arg Gln Ala Val Lys Lys Val Tyr Asp Ser Asp Val
 65 70 75 80
 Ala Lys Val Thr Thr Leu Ile Cys Pro Asp Lys Glu Lys Lys Ala Tyr
 85 90 95
 Val Arg Leu Ala Pro Asp Tyr Asp Ala Phe Asp Val Val Thr Lys Leu
 100 105 110
 Gly Ser Pro Lys Leu Ser Pro Ala Gly
 115 120

<210> 3566

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3566

Met Gly Trp Gly Ser Arg Leu His His Met Ala Gly Ala Gln Ala Arg
 1 5 10 15
 Arg Gly Ser Gly Trp Gly Ser Met Trp Gly Ala Trp Leu Trp Asp Pro
 20 25 30
 Gly Gly Pro Gly Pro Cys Arg Pro Ala Val Gln Val Ser Ser Ala Asp
 35 40 45
 Ala Arg Leu Met Val Phe Asp Lys Thr Glu Gly Thr Trp Arg Leu Leu
 50 55 60
 Cys Ser Ser Arg Ser Asn Ala Arg Val Ala Gly Leu Ser Cys Glu Glu
 65 70 75 80
 Met Gly Phe Leu Arg Tyr Trp Gly Pro Ser Glu Gly Trp Glu Pro Gly
 85 90 95
 Gly Ala Gly Glu Gln Ala
 100

<210> 3567

<211> 203

<212> PRT

<213> Homo sapiens

<400> 3567

```

Met Trp Ser Ala Ala Ser Thr Pro Pro Gly Thr Ala Ala Ser Ser Pro
  1             5             10             15
Thr Thr Gln His Pro Gly Lys Trp Ser Arg Ser Trp Trp Pro Leu Gly
      20             25             30
Ser Arg Pro Leu Ala Ser Val Pro Ser Thr Thr Trp Ala Pro Thr Pro
      35             40             45
Ser Ala Ser Pro Ser Ser Ser Cys Ser Gly Ser Gln Gly Ser Arg Gly
      50             55             60
His Gly Arg Gly His Leu Glu Gly Glu Val Leu Pro Ser Met Gly Val
      65             70             75             80
Val Ser Leu Cys Thr Pro Asn Gln Glu Pro Asp Ala Glu Ser Gln Gly
      85             90             95
Lys Gln Gly Pro Leu Lys Ser Arg Asn Leu Leu Gly Pro Pro Ser Gly
      100            105            110
Leu Pro Trp Gly Leu Gln Asp His Trp Gly Ser Thr Val Ser Gly Trp
      115            120            125
Leu Gln Leu Leu Ser Tyr Trp Tyr Cys Cys Ala Arg Gly Glu Gly Met
      130            135            140
Arg Gly Ser Ala Arg Lys Glu Arg Arg Val Ser Ser Ser Asp Thr Ala
      145            150            155            160
Val Cys Ser Glu Lys Thr Pro Val Pro Arg Ile Val Glu Ile Glu Val
      165            170            175
Gly Arg Glu Glu Val Arg Glu Arg Arg Leu Trp Pro Gln Gly Gln Leu
      180            185            190
Thr Thr Asn Pro Leu Pro Thr Gln Ala Leu Ser
      195            200

```

<210> 3568

<211> 135

<212> PRT

<213> Homo sapiens

<400> 3568

```

Met Asn Leu Lys Arg Tyr Phe Glu Gln Lys His Arg Thr Glu Ala Ser
 1             5             10            15
Val Pro Ala Pro Gln Ala Ala Cys Val Pro Gly Tyr Pro Val Pro Ser
          20             25            30
Asp Pro Gly Glu Ala Gly Leu Ser Cys Thr Gly Ser Ser Gly Thr Gly
      35             40            45
Tyr Cys Ala Ser Gln Phe Ser Val Ile Ser His Leu Arg Thr Ile Phe
      50             55            60
Leu Pro Glu Leu Arg Pro Leu Pro Arg Leu Ser Leu Glu Asp Thr Asn
 65             70             75            80
Asn Glu Asp Thr Asn Asn Glu His Leu Leu Gly Ser Pro Glu Asp Pro
          85             90            95
His Met Glu Ala Ala Gln Pro Ser Pro Tyr Pro Glu Ala His Arg Leu
      100            105            110
His Lys Pro Arg Pro Gly Pro Ser Leu Met Ala His Arg Gln Val Leu
      115            120            125
Arg Thr Pro Thr Ala Leu Leu
      130            135

```

<210> 3569

<211> 534

<212> PRT

<213> Homo sapiens

<400> 3569

```

Met Ser Leu Leu Arg Asp Ser Arg Asn Tyr Ser Gln Glu Thr Val Pro
 1             5             10            15
Lys Ala Asn Phe Gly Phe Ser Gly Ile Ser Pro Leu Glu Asp Glu Ile
          20             25            30
Asn Lys Gly Ser Lys Ile Ser Gly Leu Gln Tyr Ser Ile Pro Asp Thr
      35             40            45
Glu Asn Gln Thr Leu Asn Tyr Gly Lys Thr Lys Glu Met Glu Lys Gln

```

50	55	60
Asn Thr Asp Lys Cys His Val Ser Ser His Thr Arg Leu Thr Glu Ser		
65	70	75
Ser Val His Asp Phe Lys Thr Glu Asp Gln Glu Val Ile Thr Thr Asp		
85	90	95
Phe Gly Gln Val Val Leu Arg Pro Lys Glu Ala Arg His Ala Asn Val		
100	105	110
Asn Pro Asn Glu Asp Gly Glu Ser Ser Ser Ser Ser Pro Thr Glu Glu		
115	120	125
Asn Ala Ala Thr Asp Asn Ile Ala Phe Met Ile Thr Glu Thr Thr Val		
130	135	140
Gln Val Leu Ser Ser Gly Glu Val His Asp Ile Val Ser Gln Lys Gly		
145	150	155
Glu Asp Ile Gln Thr Val Asn Ile Asp Ala Arg Lys Glu Met Thr Pro		
165	170	175
Arg Gln Glu Gly Thr Asp Asn Glu Asp Pro Val Val Cys Leu Asp Lys		
180	185	190
Lys Pro Val Ile Ile Ile Phe Asp Glu Pro Met Asp Ile Arg Ser Ala		
195	200	205
Tyr Lys Arg Leu Ser Thr Ile Phe Glu Glu Cys Asp Glu Glu Leu Glu		
210	215	220
Arg Met Met Met Glu Glu Lys Ile Glu Glu Glu Glu Glu Glu Glu Asn		
225	230	235
Gly Asp Ser Val Val Gln Asn Asn Asn Thr Ser Gln Met Ser His Lys		
245	250	255
Lys Val Ala Pro Gly Asn Leu Arg Thr Gly Gln Gln Val Glu Thr Lys		
260	265	270
Ser Gln Pro His Ser Leu Ala Thr Glu Thr Arg Asn Pro Gly Gly Gln		
275	280	285
Glu Met Asn Arg Thr Glu Leu Asn Lys Phe Ser His Val Asp Ser Pro		
290	295	300
Asn Ser Glu Cys Lys Gly Glu Asp Ala Thr Asp Asp Gln Phe Glu Ser		
305	310	315
Pro Lys Lys Lys Phe Lys Phe Lys Phe Pro Lys Lys Gln Leu Ala Ala		
325	330	335
Leu Thr Gln Ala Ile Arg Thr Gly Thr Lys Thr Gly Lys Lys Thr Leu		

340 345 350
 Gln Val Val Val Tyr Glu Glu Glu Glu Glu Asp Gly Thr Leu Lys Gln
 355 360 365
 His Lys Glu Ala Lys Arg Phe Glu Ile Ala Arg Ser Gln Pro Glu Asp
 370 375 380
 Thr Pro Glu Asn Thr Val Arg Arg Gln Glu Gln Pro Ser Ile Glu Ser
 385 390 395 400
 Thr Ser Pro Ile Ser Arg Thr Asp Glu Ile Arg Lys Asn Thr Tyr Arg
 405 410 415
 Thr Leu Asp Ser Leu Glu Gln Thr Ile Lys Gln Leu Glu Asn Thr Ile
 420 425 430
 Ser Glu Met Ser Pro Lys Ala Leu Val Asp Thr Ser Cys Ser Ser Asn
 435 440 445
 Arg Asp Ser Val Ala Ser Ser Ser His Ile Ala Gln Glu Ala Ser Pro
 450 455 460
 Arg Pro Leu Leu Val Pro Asp Glu Gly Pro Thr Ala Leu Glu Pro Pro
 465 470 475 480
 Thr Ser Ile Pro Ser Ala Ser Arg Lys Gly Ser Ser Gly Ala Pro Gln
 485 490 495
 Thr Ser Arg Met Pro Val Pro Met Ser Ala Lys Asn Arg Pro Gly Thr
 500 505 510
 Leu Asp Lys Pro Gly Lys Gln Ser Lys Leu Gln Asp Pro Arg Gln Tyr
 515 520 525
 Arg Gln Val Val Leu Pro
 530

<210> 3570

<211> 139

<212> PRT

<213> Homo sapiens

<400> 3570

Met Ala Pro Glu Asp Pro Ala Ser Leu Arg His Gly Leu Trp His Gln
 1 5 10 15
 Arg Thr Gln Pro Leu Ala Pro Trp Thr Met Ala Ala Glu Asp Pro Ala

20 25 30
 Pro Arg Ile Leu Asp Tyr Gly Ser Arg Gly Pro Ser Leu Pro Ala Ser
 35 40 45
 Trp Thr Lys Ala Pro Glu Asp Pro Ala Pro Ser Gly Pro Gly Leu Trp
 50 55 60
 Gln Gln Arg Thr Gln Pro Leu Ala Ser Trp Thr Met Ala Pro Glu Asp
 65 70 75 80
 Pro Ala Ser Leu Arg His Gly Leu Trp His Gln Arg Thr Gln Pro Leu
 85 90 95
 Ala Pro Trp Thr Met Ala Ala Glu Asp Pro Ala Pro Trp Arg Pro Gly
 100 105 110
 Leu Arg His Ser Arg Thr Pro Gln His Arg Val Leu Leu His Arg Arg
 115 120 125
 Thr Leu Ala Gly Leu Arg Pro Gly Leu Ser Tyr
 130 135

<210> 3571

<211> 345

<212> PRT

<213> Homo sapiens

<400> 3571

Met Asp Gly Glu Gln Leu Glu Gly Ala Ser Ser Glu Lys Arg Glu Arg
 1 5 10 15
 Glu Ala Ala Glu Glu Gly Leu Ala Ser Val Lys Arg Pro Arg Arg Glu
 20 25 30
 Ala Leu Ser Asn Asp Thr Thr Glu Ser Leu Ala Ala Asn Ser Arg Gly
 35 40 45
 Arg Glu Lys Pro Arg Pro Leu His Ala Leu Ala Ala Gly Phe Ser Pro
 50 55 60
 Pro Val Asn Val Thr Val Ser Pro Arg Ser Glu Glu Ser His Thr Thr
 65 70 75 80
 Thr Val Ser Gly Gly Asn Gly Ser Val Phe Gln Ala Gly Pro Gln Leu
 85 90 95
 Gln Ala Leu Ala Asn Leu Glu Ala Arg Arg Gly Ser Ile Gly Ala Ala

100	105	110
Leu Ser Ser Arg Asp Val Ser Gly	Leu Pro Val Tyr Ala Gln Ser Gly	
115	120	125
Glu Pro Arg Arg Leu Thr Gln Ala	Gln Val Ala Ala Phe Pro Gly Glu	
130	135	140
Asn Ala Leu Glu His Ser Ser Asp	Gln Asp Thr Trp Asp Ser Leu Arg	
145	150	155
Ser Pro Gly Phe Cys Ser Pro Leu	Ser Ser Gly Gly Gly Ala Glu Ser	
165	170	175
Leu Pro Pro Gly Gly Pro Gly His	Ala Glu Ala Gly His Leu Gly Lys	
180	185	190
Val Cys Asp Phe His Leu Asn His	Gln Gln Pro Ser Pro Thr Ser Val	
195	200	205
Leu Pro Thr Glu Val Ala Ala Pro	Pro Leu Glu Lys Ile Leu Ser Val	
210	215	220
Asp Ser Val Ala Val Asp Cys Ala	Tyr Arg Thr Val Pro Lys Pro Gly	
225	230	235
Pro Gln Pro Gly Pro His Gly Ser	Leu Leu Thr Glu Gly Cys Leu Arg	
245	250	255
Ser Leu Ser Gly Asp Leu Asn Arg	Phe Pro Cys Gly Met Glu Val His	
260	265	270
Ser Gly Gln Arg Glu Leu Glu Ser	Val Val Ala Val Gly Glu Ala Met	
275	280	285
Ala Phe Glu Ile Ser Asn Gly Ser	His Glu Leu Leu Ser Gln Gly Gln	
290	295	300
Lys Gln Ile Phe Ile Gln Thr Ser	Asp Gly Leu Ile Leu Ser Pro Pro	
305	310	315
Gly Thr Ile Val Ser Gln Glu Glu	Asp Ile Val Thr Val Thr Asp Ala	
325	330	335
Glu Gly Arg Ala Cys Gly Trp Ala	Arg	
340	345	

<210> 3572

<211> 484

<212> PRT

<213> Homo sapiens

<400> 3572

Met Glu Ala Glu Glu Ala Gln Arg Gly Ala Ser Pro Pro Ile Ser Ala
 1 5 10 15
 Ile Glu Glu Phe Ser Ile Ile Pro Glu Ala Pro Met Arg Ser Ser Gln
 20 25 30
 Val Ser Ala Leu Gly Leu Glu Ala Gln Glu Asp Glu Asp Pro Ser Tyr
 35 40 45
 Lys Trp Arg Glu Glu His Arg Leu Ser Ala Thr Gln Gln Ser Glu Leu
 50 55 60
 Arg Asp Val Cys Asp Tyr Ala Ile Glu Thr Met Pro Ser Phe Pro Lys
 65 70 75 80
 Glu Gly Ser Ala Asp Val Glu Pro Asn Gln Glu Ser Leu Val Ala Glu
 85 90 95
 Ala Cys Asp Thr Pro Glu His Trp Glu Ala Val Pro Gln Ser Leu Ala
 100 105 110
 Gly Arg Gln Ala Arg Thr Leu Ala Pro Pro Glu Leu Trp Ala Cys Pro
 115 120 125
 Ile Gln Ser Glu His Leu Asp Met Ala Pro Phe Ser Ser Asp Leu Gly
 130 135 140
 Ser Glu Glu Glu Glu Val Glu Phe Trp Pro Gly Leu Thr Ser Leu Thr
 145 150 155 160
 Leu Gly Ser Gly Gln Ala Glu Glu Glu Glu Glu Thr Ser Ser Asp Asn
 165 170 175
 Ser Gly Gln Thr Arg Tyr Tyr Ser Pro Cys Glu Glu His Pro Ala Glu
 180 185 190
 Thr Asn Gln Asn Glu Gly Ala Glu Ser Gly Thr Ile Arg Gln Gly Glu
 195 200 205
 Glu Leu Pro Ser Glu Glu Leu Gln Glu Ser Gln Gly Leu Leu His Pro
 210 215 220
 Gln Glu Val Gln Val Leu Glu Glu Gln Gly Gln Gln Glu Ala Gly Phe
 225 230 235 240
 Arg Gly Glu Gly Thr Leu Arg Glu Asp Val Cys Ala Asp Gly Leu Leu
 245 250 255
 Gly Glu Glu Gln Met Ile Glu Gln Val Asn Asp Glu Lys Gly Glu Gln

260	265	270
Lys Gln Lys Gln Glu Gln Val	Gln Asp Val Met Leu Gly Arg Gln Gly	
275	280	285
Glu Arg Met Gly Leu Thr Gly	Glu Pro Glu Gly Leu Asn Asp Gly Glu	
290	295	300
Trp Glu Gln Glu Asp Met Glu Arg	Lys Ala Gln Gly Gln Gly Gly Pro	
305	310	315
Glu Gln Gly Glu Glu Arg Lys Arg	Glu Leu Gln Val Pro Glu Glu Asn	
325	330	335
Arg Ala Asp Ser Gln Asp Glu Lys	Ser Gln Thr Phe Leu Gly Lys Ser	
340	345	350
Glu Glu Val Thr Gly Lys Gln Glu	Asp His Gly Ile Lys Glu Lys Gly	
355	360	365
Val Pro Val Ser Gly Gln Glu Ala	Lys Glu Pro Glu Ser Trp Asp Gly	
370	375	380
Gly Arg Leu Gly Ala Val Gly Arg	Ala Arg Ser Arg Glu Glu Glu Asn	
385	390	395
Glu His His Gly Pro Ser Met Pro	Ala Leu Ile Ala Pro Glu Asp Ser	
405	410	415
Pro His Cys Asp Leu Phe Pro Gly	Ala Ser Tyr Leu Val Thr Gln Ile	
420	425	430
Pro Gly Thr Gln Thr Glu Ser Arg	Ala Glu Glu Leu Ser Pro Ala Ala	
435	440	445
Leu Ser Pro Leu Leu Glu Pro Ile	Arg Cys Ser His Gln Pro Ile Ser	
450	455	460
Leu Leu Gly Ser Phe Leu Thr Glu	Glu Ser Pro Asp Lys Glu Lys Leu	
465	470	475
Leu Ser Val Leu		480

<210> 3573

<211> 165

<212> PRT

<213> Homo sapiens

<400> 3573

Met Pro Ser Ser Pro Thr Trp Ala Leu Ile Leu His Ile Arg Leu Pro
 1 5 10 15
 Thr Leu Thr Pro Pro Ile Gly Pro Pro Gln Pro Cys Thr Tyr Ser Pro
 20 25 30
 His Gly Cys Gln Pro His Pro Ala His Ala Glu Ser Pro Cys Cys Gly
 35 40 45
 Val Pro Pro His Gly Gln Leu His Thr Leu Leu Gly Leu Thr Pro Ala
 50 55 60
 Leu Pro Thr Ser Thr Pro Ser Leu Pro Cys Thr Gly Pro Pro Pro Arg
 65 70 75 80
 Val Asp Val Leu Cys Gly Arg Gln Ser Gly Ala Pro Lys Asp Gly His
 85 90 95
 Thr Leu Ser Pro Gly Thr Cys Glu Cys Tyr Met Ala Lys Gly Thr Leu
 100 105 110
 Gln Ile Lys Ile Lys Ile Val Asn Phe Lys Thr Gly Lys Leu Ser Trp
 115 120 125
 Ile Ile Cys Met Gly Pro Met Gln Ser Gln Gly Ser Ile Arg Ile Glu
 130 135 140
 Lys Ala Gly Arg Lys Lys Gly Arg Trp Glu Arg Gly Thr Gly Pro Ala
 145 150 155 160
 Ala Ala Gly Gly Lys
 165

<210> 3574

<211> 275

<212> PRT

<213> Homo sapiens

<400> 3574

Met Ser Thr Ile Gly Ser Phe Glu Gly Phe Gln Ala Val Ser Leu Lys
 1 5 10 15
 Gln Glu Gly Asp Asp Gln Pro Ser Glu Thr Asp His Leu Ser Met Glu
 20 25 30
 Glu Glu Asp Pro Met Pro Arg Gln Ile Ser Arg Gln Ser Ser Val Thr

35	40	45
Glu Ser Thr Leu Tyr Pro Asn Pro Tyr His Gln Pro Tyr Ile Ser Arg		
50	55	60
Lys Tyr Phe Ala Thr Arg Pro Gly Ala Ile Glu Thr Ala Met Glu Asp		
65	70	75
Leu Lys Gly His Val Ala Glu Thr Ser Gly Glu Thr Ile Gln Gly Phe		
85	90	95
Trp Leu Leu Thr Lys Ile Asp His Trp Asn Asn Glu Lys Glu Arg Ile		
100	105	110
Leu Leu Val Thr Asp Lys Thr Leu Leu Ile Cys Lys Tyr Asp Phe Ile		
115	120	125
Met Leu Ser Cys Val Gln Leu Gln Arg Ile Pro Leu Ser Ala Val Tyr		
130	135	140
Arg Ile Cys Leu Gly Lys Phe Thr Phe Pro Gly Met Ser Leu Asp Lys		
145	150	155
Arg Gln Gly Glu Gly Leu Arg Ile Tyr Trp Gly Ser Pro Glu Glu Gln		
165	170	175
Ser Leu Leu Ser Arg Trp Asn Pro Trp Ser Thr Glu Val Pro Tyr Ala		
180	185	190
Thr Phe Thr Glu His Pro Met Lys Tyr Thr Ser Glu Lys Phe Leu Glu		
195	200	205
Ile Cys Lys Leu Ser Gly Phe Met Ser Lys Leu Val Pro Ala Ile Gln		
210	215	220
Asn Ala His Lys Asn Ser Thr Gly Ser Gly Arg Gly Lys Lys Leu Met		
225	230	235
Val Leu Thr Glu Pro Ile Leu Ile Glu Thr Tyr Thr Gly Leu Met Ser		
245	250	255
Phe Ile Gly Asn Arg Asn Lys Leu Gly Tyr Ser Leu Ala Arg Gly Ser		
260	265	270
Ile Gly Phe		
275		

<210> 3575

<211> 125

<212> PRT

<213> Homo sapiens

<400> 3575

```

Met Gln Pro Val Ile Ser Ala Leu Asn Ile Gln Thr Gln Thr Val Gln
 1             5             10             15
Thr His Pro Ala Pro Arg Asn Thr Ser Glu His Cys Thr Leu Pro Ala
      20             25             30
Cys Asp Ala Gln Glu Glu His Arg Asp Thr Val Asp Gly Ser Ile Ala
      35             40             45
Arg Thr Glu Ser Ala Ser Gly Glu Ile Trp Arg Gln Thr His Met Asp
      50             55             60
Gly Glu His His Val Asn Thr Lys Ala Glu Ile Ser Val Met Ser Ala
      65             70             75             80
Asn Gln Gly Ala Pro Arg Ile Thr Ser Lys Pro Pro Glu Ala Arg Arg
      85             90             95
Glu Ala Arg Asp Arg Ser Leu Pro Ser Ala Phe Ser Leu Arg Gly Leu
      100            105            110
Thr Asp Thr Leu Ile Leu Gly Phe Cys Pro Pro Glu Leu
      115            120            125

```

<210> 3576

<211> 327

<212> PRT

<213> Homo sapiens

<400> 3576

```

Met Ser Leu Met Thr Arg Glu Asn Leu Ala Phe Arg Gly Ser Leu Met
 1             5             10             15
Gly Cys Ser Glu Leu Lys Pro Phe Gln Glu Leu Thr His Gln Ser Ala
      20             25             30
Val Ser His Ser Arg Ala Asp Val Ala Asp Val Trp Trp Tyr Cys Gly
      35             40             45
Gly Pro Leu Leu Asp Thr Leu Pro Ser Asn Trp Ser Gly Thr Cys Thr
      50             55             60
Leu Val Gln Phe Ala Ile Pro Phe Ala Leu Ala Phe Leu Gln Pro Glu

```

65	70	75	80
Lys Glu Lys Pro Gln His Arg Lys Ile Arg Glu Ala Pro Tyr Gly Ser			
	85	90	95
Phe Asp Ser Gln Val Tyr Leu Asp Ala Thr Gly Val Pro Gln Gly Val			
	100	105	110
Pro His Lys Phe Lys Ala Gln Asp Gln Ile Ala Ala Gly Phe Glu Ser			
	115	120	125
Ile Phe Trp Trp Val Thr Ile Ser Lys Asn Ile Asp Trp Ile Asn Tyr			
	130	135	140
Ile Tyr Tyr Asn Gln Gln Arg Phe Ile Asn Tyr Thr Arg Asp Ala Val			
145	150	155	160
Lys Gly Ile Ala Glu Gln Leu Gly Pro Thr Ser Gln Met Ala Trp Glu			
	165	170	175
Asn Arg Met Ala Leu Asp Met Ile Leu Ala Lys Lys Gly Gly Val Cys			
	180	185	190
Val Met Ile Lys Thr Gln Cys Cys Thr Phe Ile Pro Asn Asn Thr Ala			
	195	200	205
Pro Ser Gly Ser Ile Thr Arg Ala Leu Gln Gly Leu Thr Ala Leu Ser			
	210	215	220
Asn Glu Leu Ala Lys Asn Ser Gly Val Asn Asp Pro Phe Ser Gly Trp			
225	230	235	240
Leu Glu Arg Trp Phe Gly Lys Trp Lys Gly Ile Ile Ala Ser Ile Leu			
	245	250	255
Thr Ser Leu Ala Ala Val Ile Gly Val Val Ile Leu Phe Gly Cys Cys			
	260	265	270
Val Thr Pro Cys Ile Arg Gly Leu Val Gln Arg Leu Ile Glu Thr Val			
	275	280	285
Leu Thr Lys Thr Ser Leu Ser Ser Pro Pro Pro Tyr Ser Asp Lys Leu			
	290	295	300
Phe Leu Leu Glu Asp Gln Val Glu Gln Gln Ser Gln Asp Leu Leu Lys			
305	310	315	320
Arg Phe Glu Glu Glu Gly Pro			
	325		

<210> 3577

<211> 122

<212> PRT

<213> Homo sapiens

<400> 3577

```

Met Leu Val Leu Thr Ser Ala Ile Pro Gln Ala Lys His Ser Phe Tyr
 1             5             10             15
Gln Ala His Cys Leu Ala Gly Gly Arg Lys Phe His Arg Leu Ser Leu
      20             25             30
Gly Ser Phe Cys Arg Asn Asn Pro Tyr Ser Ser Gly Gln Gly Ala Asn
      35             40             45
Val Ser Ile Gln Leu Ala Ala Lys Asn Val Tyr Pro Asn Lys Gln Gly
      50             55             60
Arg Pro Thr Asp Pro Leu Asp Pro Leu Glu Met Asp Leu Gly His Ser
      65             70             75             80
Ala Phe His Asp Phe Ser Lys Gln Arg Gly Val Val Ile Leu Ser Lys
      85             90             95
Ser Trp Arg Gln Cys Gln Cys Pro Ala Thr His His Val Pro Val Leu
      100            105            110
Glu Lys Pro Leu Cys Thr Pro Leu Cys Trp
      115            120

```

<210> 3578

<211> 116

<212> PRT

<213> Homo sapiens

<400> 3578

```

Met Leu His Gly Leu Gly Pro Val Pro Pro Pro Leu Trp Ala Ala Val
 1             5             10             15
Ser Ala Ser Arg Trp Gly Gly Gly Gly Pro Gln Pro Leu Pro Gln Val
      20             25             30
Ser Lys Glu Gly Ser Gly Leu Ala Arg Pro Asp Pro Ser Cys Cys Val
      35             40             45

```

Arg Ala Gly Leu Gly Ala Ala Lys Thr Pro Gly Ala Gln Gly Glu Arg
 50 55 60
 Leu Gly Pro Arg Gly Thr Arg Arg Ala Arg Gly Leu Gln Leu Arg Pro
 65 70 75 80
 Val Gly Gly Gln Ser Arg Arg Glu Ala Ala Pro Ala Cys Ser Gly Pro
 85 90 95
 Gln Pro Cys Arg Pro His Gly Thr Gly Ala Ala Ser Ser Leu Gly Leu
 100 105 110
 Gln Asp Ala Asp
 115

<210> 3579

<211> 169

<212> PRT

<213> Homo sapiens

<400> 3579

Met Leu Gln Ser Glu Ile Gln Ala Met Lys Lys Leu Arg His Lys His
 1 5 10 15
 Ile Leu Ala Leu Tyr Ala Val Val Ser Val Gly Asp Pro Val Tyr Ile
 20 25 30
 Ile Thr Glu Leu Met Ala Lys Gly Ser Leu Leu Glu Leu Leu Arg Asp
 35 40 45
 Ser Asp Glu Lys Val Leu Pro Val Ser Glu Leu Leu Asp Ile Ala Trp
 50 55 60
 Gln Val Ala Glu Gly Met Cys Tyr Leu Glu Ser Gln Asn Tyr Ile His
 65 70 75 80
 Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Gly Glu Asn Thr Leu Cys
 85 90 95
 Lys Val Gly Asp Phe Gly Leu Ala Arg Leu Ile Lys Glu Asp Val Tyr
 100 105 110
 Leu Ser His Asp His Asn Ile Pro Tyr Lys Trp Thr Ala Pro Glu Ala
 115 120 125
 Leu Ser Arg Gly His Tyr Ser Thr Lys Ser Asp Val Trp Ser Phe Gly
 130 135 140

Ile Leu Leu His Glu Met Phe Ser Arg Gly Gln Val Pro Tyr Pro Gly
 145 150 155 160
 Thr Val Pro Thr Val Pro Asp Trp Ala
 165

<210> 3580

<211> 263

<212> PRT

<213> Homo sapiens

<400> 3580

Met Pro Ile Ala Ala Phe Gly Gln Lys Gln Arg Pro Ser Arg Phe Phe
 1 5 10 15
 Met Thr Pro Pro Arg Leu His Tyr Thr Pro Pro Leu Gln Ser Pro Ile
 20 25 30
 Ile Asp Asn Asp Pro Leu Leu Gly Gln Ser Pro Trp Arg Ser Lys Ile
 35 40 45
 Ser Gly Ser Asp Thr Glu Thr Leu Gly Gly Phe Pro Val Glu Phe Leu
 50 55 60
 Ile Gln Val Thr Arg Leu Ser Lys Ile Leu Met Ile Lys Lys Glu His
 65 70 75 80
 Ile Lys Lys Leu Arg Glu Met Asn Thr Glu Ala Glu Lys Leu Lys Ser
 85 90 95
 Tyr Ser Met Pro Ile Ser Ile Glu Phe Gln Arg Arg Tyr Ala Thr Ile
 100 105 110
 Val Leu Glu Leu Glu Gln Leu Asn Lys Asp Leu Asn Lys Val Leu His
 115 120 125
 Lys Val Gln Gln Tyr Cys Tyr Glu Leu Ala Pro Asp Gln Gly Leu Gln
 130 135 140
 Pro Ala Asp Gln Pro Thr Asp Met Arg Arg Arg Cys Glu Glu Glu Ala
 145 150 155 160
 Gln Glu Ile Val Arg His Ala Asn Ser Ser Thr Gly Gln Pro Cys Val
 165 170 175
 Glu Asn Glu Asn Leu Thr Asp Leu Ile Ser Arg Leu Thr Ala Ile Leu
 180 185 190

Leu	Gln	Ile	Lys	Cys	Leu	Ala	Glu	Gly	Gly	Asp	Leu	Asn	Ser	Phe	Glu	
195					200					205						
Phe	Lys	Ser	Leu	Thr	Asp	Ser	Leu	Asn	Asp	Ile	Lys	Ser	Thr	Ile	Asp	
210				215					220							
Ala	Ser	Asn	Ile	Ser	Cys	Phe	Gln	Asn	Asn	Val	Glu	Ile	His	Val	Ala	
225					230					235					240	
His	Ile	Gln	Ser	Gly	Leu	Ser	Gln	Met	Gly	Asn	Leu	His	Ala	Phe	Ala	
245					250					255						
Ala	Asn	Asn	Thr	Asn	Arg	Asp										
260																

<210> 3581

<211> 440

<212> PRT

<213> Homo sapiens

<400> 3581

Met	Ala	Glu	Asn	Asn	Glu	Asn	Ile	Ser	Lys	Asn	Val	Asp	Val	Arg	Pro
1					5				10					15	
Lys	Thr	Ser	Arg	Ser	Arg	Ser	Ala	Asp	Arg	Lys	Asp	Gly	Tyr	Val	Trp
				20				25					30		
Ser	Gly	Lys	Glu	Leu	Ser	Trp	Ser	Lys	Lys	Ser	Glu	Ser	Tyr	Ser	Asp
				35				40					45		
Ala	Glu	Thr	Val	Asn	Gly	Ile	Glu	Lys	Thr	Glu	Val	Ser	Leu	Arg	Asn
				50				55				60			
Gln	Glu	Arg	Lys	His	Ser	Cys	Ser	Ser	Ile	Glu	Leu	Asp	Leu	Asp	His
65					70					75				80	
Ser	Cys	Gly	His	Arg	Phe	Leu	Gly	Arg	Ser	Leu	Lys	Gln	Lys	Leu	Gln
				85					90					95	
Asp	Ala	Val	Gly	Gln	Cys	Phe	Pro	Ile	Lys	Asn	Cys	Ser	Ser	Arg	His
				100				105					110		
Ser	Ser	Gly	Leu	Pro	Ser	Lys	Arg	Lys	Ile	His	Ile	Ser	Glu	Leu	Met
				115				120					125		
Leu	Asp	Lys	Cys	Pro	Phe	Pro	Pro	Arg	Ser	Asp	Leu	Ala	Phe	Arg	Trp
				130				135					140		

His Phe Ile Lys Arg His Thr Ala Pro Ile Asn Ser Lys Ser Asp Glu
 145 150 155 160
 Trp Val Ser Thr Asp Leu Ser Gln Thr Glu Leu Arg Asp Gly Gln Leu
 165 170 175
 Lys Arg Arg Asn Met Glu Glu Asn Ile Asn Cys Phe Ser His Thr Asn
 180 185 190
 Val Gln Pro Cys Val Ile Thr Thr Asp Asn Ala Leu Cys Arg Glu Gly
 195 200 205
 Pro Met Thr Gly Ser Val Met Asn Leu Val Ser Asn Asn Ser Ile Glu
 210 215 220
 Asp Ser Asp Met Asp Ser Asp Asp Glu Ile Leu Thr Leu Cys Thr Ser
 225 230 235 240
 Ser Arg Lys Arg Asn Lys Pro Lys Trp Asp Leu Asp Asp Glu Ile Leu
 245 250 255
 Gln Leu Glu Thr Pro Pro Lys Tyr His Thr Gln Ile Asp Tyr Val His
 260 265 270
 Cys Leu Val Pro Asp Leu Leu Gln Ile Asn Asn Asn Pro Cys Tyr Trp
 275 280 285
 Gly Val Met Asp Lys Tyr Ala Ala Glu Ala Leu Leu Glu Gly Lys Pro
 290 295 300
 Glu Gly Thr Phe Leu Leu Arg Asp Ser Ala Gln Glu Asp Tyr Leu Phe
 305 310 315 320
 Ser Val Ser Phe Arg Arg Tyr Ser Arg Ser Leu His Ala Arg Ile Glu
 325 330 335
 Gln Trp Asn His Asn Phe Ser Phe Asp Ala His Asp Pro Cys Val Phe
 340 345 350
 His Ser Pro Asp Ile Thr Gly Leu Leu Glu His Tyr Lys Asp Pro Ser
 355 360 365
 Ala Cys Met Phe Phe Glu Pro Leu Leu Ser Thr Pro Leu Ile Arg Thr
 370 375 380
 Phe Pro Phe Ser Leu Gln His Ile Cys Arg Thr Val Ile Cys Asn Cys
 385 390 395 400
 Thr Thr Tyr Asp Gly Ile Asp Ala Leu Pro Ile Pro Ser Ser Met Lys
 405 410 415
 Leu Tyr Leu Lys Glu Tyr His Tyr Lys Ser Lys Val Arg Val Leu Arg
 420 425 430

Ile Asp Ala Pro Glu Gln Gln Cys
 435 440

<210> 3582

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3582

Met Phe Leu Val Thr Asn Ser Ile Trp Pro Asp Phe Lys Val Ser His
 1 5 10 15
 Pro Ser Phe Cys Gln Leu Gly Ile Cys Val Asn Val Leu Ile Leu Met
 20 25 30
 Lys Trp Ser Phe Leu Ser Gln Leu Ile Phe Leu Val Ile Asp Ser Ile
 35 40 45
 Cys Leu Leu Leu Lys Leu Val Thr Ser Phe Cys Leu Leu Asp Ile Tyr
 50 55 60
 Met Val Cys His Pro Phe Ser Leu Asn Lys Ser Arg Ser Leu Cys Phe
 65 70 75 80
 Lys Val His Phe Leu Gln Lys Ala Tyr Arg His Phe Phe Ile Leu Ser
 85 90 95
 Leu Asn Pro Cys Met Arg Asn Ser Val
 100 105

<210> 3583

<211> 301

<212> PRT

<213> Homo sapiens

<400> 3583

Met Cys Val Trp Arg Leu Ile Leu Asp Ala Val Asp Gly Arg Glu Cys
 1 5 10 15
 His His Leu Val His Cys Tyr Met Pro Gln Glu Ile Ile Ala Gln Pro
 20 25 30